

* strike out what does not apply

DIRECT METHOD OF HOROSCOPE CALCULATION

TO CALCULATE THE SIGNS ON THE CUSPS

STEP A

Example

- | | | |
|----|-------------------------------------|----------------|
| 1. | Write down BIRTH date | e.g. 21/6/82 |
| 2. | Write down BIRTH place | HASTINGS, N.Z. |
| 3. | Write down LATITUDE of birth place | 39° SOUTH 40' |
| 4. | Write down LONGITUDE of birth place | 176° EAST 52' |
-

Step A1 ~~Above~~

Obtained from the person or subject the chart is being calculated for.
e.g. Date of birth, inception or happening.

Step A2

The town, city or area of birth, inception, or happening occurred, again obtained by the person or subject.

Step A3

The Geographical Latitude of birth place obtained from a map.

Step A4

The Geographical Longitude of birth place obtained from a map.

STEP B

Hours Mins Secs

- | | | | | | | |
|----|--------------------------------|----|----|----|-------------------------|------------------------|
| 1. | Write down BIRTH TIME as given | 01 | 04 | 00 | a.m./ p.m. * | |
| 2. | Write down ZONE STANDARD | 12 | 00 | 00 | E-/ M * | |
| 3. | Write Summer (or double) time* | - | - | - | - | |
| 4. | Greenwich Mean Time (G.M.T.) | = | 01 | 04 | 00 | a.m. /p.m.* |
- GMT date 20/6/82 ~~a.m.~~/p.m.*

Step B1 ~~above~~

Birth time or exact time of happening or birth or subject in concern.

Step B2

ZONE STANDARD is the standard longitude time zone each country operates under from Greenwich, England. e.g. Greenwich England is 00 degrees longitude, every 15 degrees of longitude west of Greenwich is PLUS one hour of time, thus 30 degrees West Long. would be 2 hours behind Greenwich. Now, for East of Greenwich, every 15 degrees would be minus one hour of time so 30 degrees East Long. would be 2 hours ahead of Greenwich. So in our example, N.Z. being in the 12 hour standard time zone East of Greenwich, we MINUS 12 hours from the LOCAL BIRTH TIME.

Step B3

If the birth took place during summer, or double time (daylight saving) allowance must be made by subtracting the appropriate time that was added to the zone clocks.

Step B4

The result of the calculations being the birth time as it would have been at Greenwich meantime, (GMT). Because the result was the product of subtracting in this example, 1.04p.m. GMT would be the day before the birth date LOCAL time, therefore GMT birth is 1.04p.m. on 20/6/82 GMT date.

This final result of birth time is the time used in the following calculations. This result is also used in the calculation of planetary positions which will be explained later.

STEP C		Hours	Mins	Secs	
1.	Write in SIDEREAL TIME *noon/midnight GMT	05	53	29	
2.	Write to INTERVAL *To/From, *noon/midnight	01	04	00	a.m.-/p.m.+*
	RESULT	06	57	29	
3.	Write in the Acceleration on INTERVAL (Step C2) 10 seconds per hour			10	a.m.-/p.m.+*
4.	Which equals SIDEREAL TIME at Greenwich at birth	06	57	39	
5.	Write in LONGITUDE TIME EQUIVALENT	11	47	00	E+/W-*
6.	Add 12 hours for the Southern Hemisphere births (not necessary for Northern Hem.) +	12	00	00	
7.	LOCAL SIDEREAL TIME AT BIRTH	29	104	39	
8.	Subtract 24 hours if necessary	- 24	00	00	
	RESULT	= 05	104	39	
9.	Carry over seconds to minutes, mins to hours if necessary	= 06	44	39	
FINAL LOCAL SIDEREAL TIME in this example is		06	44	39	

Step C1 - Above

Is obtained from an EPHEMERIS. Locate the year of birth and the pages of the month of birth, then locate the "GMT date" as explained in Step B4. Under the column named 'Sidereal Time' you will find the hours, minutes and seconds alongside the GMT date. See Table (i)(a).

There may be times when you will use a midnight ephemeris. The same procedure is adopted.

Step C2

This is the time difference between the GMT and NOON as shown in our example. 1.04p.m. is 1 hour and four minutes past the noon which the ST (Sidereal time) was taken from, so this is added.

Please make special note: If using a midnight ephemeris, the probable ST used would be from Midnight (MN). If a MN Ephemeris was used in this example, midnight of the 21st is 00:00:00 hours 21st, not 24:00:00 hours - 2400 hours, therefore the GMT is subtracted, 1.04p.m. on the 20th being within the 12 hour zone, and before the ST of MN 21st. BUT take care not to subtract the actual 1 hour and four minutes. You must subtract the DIFFERENCE between 1.04p.m. 20th and MN 21st. In this case the answer would be 10 hours and 56 minutes. Of course if the GMT was 1.04 a.m. 21st there would only have been 1hr 4mins difference between the MN and GMT time, so this figure would be used.

The rule is:-

- For noon ephemeris, if GMT is a.m. subtract the difference.
- For noon ephemeris, if GMT is p.m. add the difference.
- For MN ephemeris, if GMT is a.m. add the difference.
- For MN ephemeris, if GMT is p.m. subtract the difference.

New Moon—June 21, 11h. 52m. a.m. (29° ± 47')

FULL MOON—June 6, 3h. 59m. p.m. (15° ± 37')

"Raphael's Astronomical Ephemeris of Planets' Places for 1982", W. Foulsham & Co., England

JUNE, 1982 [RAPHAEL'S]											
D	M	Sidereal Time	Long.	Dec.	Long.	Lat.	Dec.	Node	Long.	Dec.	MIDNIGHT
		H. M. S.									Long. Dec.
1	Tu	4 38 34	10 40	22 N 3	12 44	05 N 12	05 14	15 10	19 4	15	2 S 39
2	W	4 42 31	11 37	31 22	11 25	15 95	6 5	11 15	7 11	26	0 7 19
3	Th	4 46 27	12 34	58 22	18 7	34 44	46 9	32 15	4 13	39	38 11 38
4	F	4 50 24	13 32	24 22	26 19	42 55 4	13 13	36 15	0 25	44	11 15 26
5	S	4 54 21	14 29	50 22	32 1	43 39 3	29 17	6 14	57 7	41	32 18 35
6	S	4 58 17	15 27	14 22	39 13	38 62	36 19	51 14	54 19	33	34 20 55
7	M	5 2 14	16 24	38 22	45 25	28 111	37 21	45 14	51 11	22	15 22 20
8	Tu	5 6 10	17 22	02 20	50 7	16 20 N 34	22 41	14	48 13	9	52 22 46
9	W	5 10 7	18 19	22 22	56 19	4 50 S 31	22 36	14	45 24	59	32 22 10
10	Th	5 14 3	19 16	43 23	1 0	55 12 1	35 21	30 14	41 6	52	57 20 35
11	F	5 18 0	20 14	42 3	5 12	52 46 2	36 19	26 14	38 18	55	9 18 4
12	S	5 21 56	21 11	24 23	9 25	0 35 3	30 16	29 14	35 11	36	14 42
13	S	5 25 53	22 8	43 23	12 7	22 44 4	16 12	45 14	32 13	40	31 10 38
14	M	5 29 50	23 6	23 16	20 3	26 4 50	8	23 14	29 26	31	59 6 0
15	Tu	5 33 46	24 3	21 23	18 3	6 35 5	11 35	31 14	25 9	47	34 05 57
16	W	5 37 43	25 0	39 23	21 16	35 12 5	16 1	N 40 14	22 23	29	39 4 N 18
17	Th	5 41 39	25 57	57 23	23 0	8 30 54 5	2 6	56 14	19 7	8	38 47 9 31
18	F	5 45 36	26 55	15 23	24 14	53 14	30 12	0 14	16 22	13	44 21
19	S	5 49 32	27 52	33 23	25 29	38 16 3	39 16	31 14	13 7	7	46 18 25
20	S	5 53 29	28 49	50 23	26 14	40 33 2	22 20	2 14	10 22	15	31 21 19
21	M	5 57 25	29 47	7 23	26 29	51 30 1	S 14 22	13 14	6 7	27	15 22 41
22	Tu	6 1 22	30 44	23 23	26 15	0 1 36 0	N 9 22	45 14	3 22	33	24 22 23
23	W	6 5 19	1 41	39 23	26 0	1 37 1	31 21	38 14	0 7	25	21 20 30
24	Th	6 9 15	2 38	55 23	25 14	43 53 2	46 19	3 13	57 21	56	37 17 19
25	F	6 13 12	3 36	10 23	24 29	3 10 3	47 15	21 13	54 6	7	31 12 12
26	S	6 17 8	4 33	24 23	22 12	56 54 4	34 10	55 13	50 9	44	2 8 31
27	S	6 21 5	5 30	37 23	20 26	24 53 5	4 6	41 3	47 2	59	40 3 N 35
28	M	6 25 2	6 27	50 23	17 9	28 45 5	17 1	N 6 13	44 15	52	30 1 S 22
29	Tu	6 28 58	7 25	32 23	14 22	11 22 5	14 3	S 47 13	41 28	25	46 6 8
30	W	6 32 54	8 22	15 23	11 4	36 13 4	N 56 8	S 24 13	38 10	43	8 10 S 34

FIRST QUARTER—June 28, 5h. 56m. a.m. (6° ± 13')

EPIHEMERIS JUNE, 1982											
D	M	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Lunar Aspects
1	11	9	18	53	2	53	1	27	15	44	2 16 26 1 52 4 25
2	10	43	3	2	3	7	1	42	15	42	2 14 26 1 42 4 24
3	10	2	4	12	3	21	1	19	15	41	2 12 26 2 24 23
4	9	30	5	22	3	36	1	14	15	40	2 9 26 1 24 22
5	8	59	6	31	3	52	1	10	15	38	2 7 25 59 24 21
6	8	30	7	41	4	8	1	7	15	37	2 4 25 57 24 20
7	8	4	8	51	4	25	1	3	15	36	2 2 25 56 24 19
8	7	40	10	1	4	42	0	59	15	35	2 0 25 54 24 18
9	7	20	11	1	4	59	0	56	15	34	1 57 25 53 24 17
10	7	3	12	21	5	17	0	53	15	33	1 55 25 51 24 17
11	6	50	13	31	5	36	0	50	15	32	1 52 25 49 24 16
12	6	42	14	42	5	55	0	47	15	32	1 50 25 48 24 15
13	6	38	15	52	6	14	0	45	15	31	1 48 25 46 24 14
14	6	33	17	2	6	34	0	42	15	31	1 46 25 45 24 14
15	6	42	18	13	6	54	0	40	15	30	1 43 25 43 24 13
16	6	52	19	23	7	15	0	38	15	30	1 41 25 41 24 13
17	7	5	20	33	7	36	0	36	15	30	1 39 25 40 24 12
18	7	24	21	44	7	58	0	34	15	30	1 37 25 38 24 11
19	7	47	22	55	8	20	0	32	15	30	1 35 25 37 24 11
20	8	14	24	5	8	42	0	31	15	30	1 32 25 35 24 10
21	8	46	25	16	9	5	0	30	15	30	1 30 25 33 24 10
22	9	23	26	27	9	28	0	29	15	31	1 28 25 32 24 10
23	10	4	27	38	9	51	0	28	15	31	1 26 25 30 24 9
24	10	49	28	48	10	15	0	27	15	32	1 24 25 28 24 9
25	11	38	29	59	10	39	0	27	15	32	1 22 25 27 24 9
26	12	32	1	10	11	4	0	26	15	33	1 20 25 25 24 8
27	13	29	2	21	11	28	0	26	15	34	1 18 25 24 24 8
28	14	31	3	32	11	54	0	26	15	35	1 16 25 22 24 8
29	15	37	4	43	12	19	0	26	15	36	1 15 25 21 24 8
30	16	46	5	54	12	45	0	27	15	37	1 13 25 19 24 7

LAST QUARTER—June 14, 6h. 6m. p.m. (23° ± 21')

Table (i)(a)

L151/3

or
if the GMT is before the ST subtract the difference, if the GMT is after the ST, add the difference.

Step C3

For every hour subtracted or added from/to the ST e.g. Step C2, ten seconds per hour is also subtracted or added, whatever took place initially.

e.g. 4 hours and 30 minutes = 45 seconds
4 hours = 40 seconds (10 seconds per hour)
30 minutes = 5 seconds (half of 1 hour = half of 10 seconds).

Step C4

Which equals ST at Greenwich at birth. So we now have the exact ST if birth had happened at Greenwich. Next is to convert this back to local time.

Step C5

Longitude time equivalent is obtained from Step A4, 176° East 52'. To convert this to time, each degree of longitude equals four minutes of man time. So:
 $176^{\circ} 52' \times 4' = 11 \text{ hours } 47 \text{ minutes.}$

Step C6

Self explanatory.

Step C7

The result being local ST at birth.
Once the calculations got the exact GMT ST at birth then the necessary calculations could be made to obtain the LOCAL ST at birth.

Step C8

There are only 24 hours in a day so any calculation 24 hours and over has 24 hours subtracted to get the final calculation.

Step C9

Seconds and minutes work on the No. 60; each 60 seconds automatically become 1 minute and each 60 minutes automatically becomes 1 hour.

STEP D

Example

1. Carry forward your final ST result 06:44:39
2. Carry forward your Latitude from Step A3 39° SOUTH 40'
3. Using the "Tables of Houses" open up at the page for latitude 39° 40' (or latitude nearest).
4. Locate in the "Sidereal Time" Column your ST result (See Table (i)(b)). You will find the ST nearest your ST using our example, is 6:43:31. This will be the figure you will work from. Note also the difference between:

$$\begin{array}{r} 06:44:39 \\ - 06:43:31 \\ \hline = 00:01:08 \end{array}$$

in the event of wanting more accurate results.

Table (i)(b)[illegible][illegible]

5. Follow your finger along the line from 06:43:31 and the following numbers will read: 10/13/13/8.42/6/6.

Now look at the headings above the columns, then run your eye down each column and see if a zodiac sign changes before your ST, then form your new line for the headings.

ST	10	11	12	Ascen	2	3
	♍	♌	♋	♈	♌	♍
Change at 6:13:5						♍
Change at 6:17:26					♌	
Result	♍	♌	♋	♈	♌	♍
#Now Convert to Southern hem., e.g. all signs are changed to their opposite signs	♋	♏	♎	♏	♏	♏
Place in degrees as noted along your ST line	10	13	13	8.42	6	6

only if calculations have been made for a Southern Latitude birth. For a Northern Hemisphere Birth use original result.

Now, the 10 at the top of the column means the 10th house (10th cusp), the 11 (11th cusp), the 12 (12th cusp), the Ascen is the ascendant which is the 1st cusp, the 2 (2nd cusp), the 3 (the 3rd cusp).

6. Follow your eyes down the columns and you will see the results are:-

10th cusp is 10° ♋
 11th cusp is 13° ♏
 12th cusp is 13° ♎
 Ascen is 8°42' ♏
 2nd cusp is 6° ♏
 3rd cusp is 6° ♏

(Ascen = Ascendant which is 1st house cusp)

STEP E

Carry forward Step D6 for use in this step.

On your horoscope wheel place these signs and their degrees onto the cusps of the houses which they have been allotted to. See diagram I

See diagram II

Then follow in natural progression around the wheel the other signs of the zodiac along with the degrees of the signs opposite them. It is important that the signs opposite each other are the ones ordinarily opposite in natural progression; for the case of intercepted houses see diagram III

PROCESSED DATA

BIRTH CHART

placidus HOUSE SYSTEM

D M Y

Noon positions on _____ Prog.

Correspond to _____ 19____ Noon Date

PC _____

P₁ _____P₂ _____P₃ _____P₄ _____

Ruling Planet _____ Ruler's House _____

Rising Planet _____ Positive _____

Negative _____

Triplicities:-

Fire _____ Own sign _____

Earth _____ Exalted _____

Air _____ Detriment _____

Water _____ Fall _____

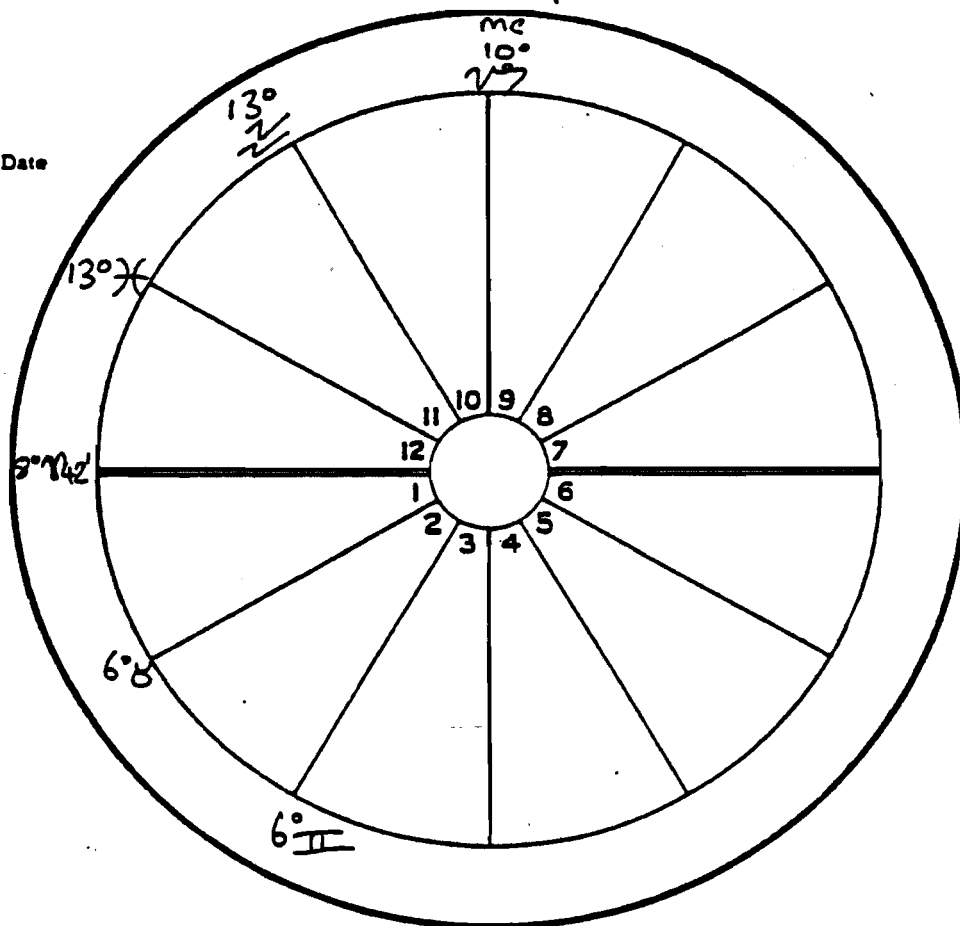
Quadruplicities:-

Cardinal _____ Angular _____

Fixed _____ Succedent _____

Mutable _____ Cadent _____

Mutual Reception _____



PLANET	DEC.	ASPECTS												NOTES	BY DIRECT METHOD			
		☉	☽	☿	♀	♂	♂	♂	♂	♂	♂	♂	♂		Birth date	D.	M.	Y.
Sun		☉																
Moon		☽																
Mercury		☿																
Venus		♀																
Mars		♂																
Jupiter		♂																
Saturn		♂																
Uranus		♂																
Neptune		♂																
Pluto		♂																
Asc.		Asc.																
M.C.		M.C.																

BY DIRECT METHOD			
TIME	H.	M.	S.
Birth date	21	6	82
Birth place	Hastings NZ		
Latitude	39	40	South
Longitude	176	52	East
Birth time as given	1	04	PM
Zone standard	12	-	-
Summer (or double) time	-	-	-
G.M.T.	1	04	PM
G.M.T. date	20	6	82
Sid. time noon G.M.T.	05	53	29
Interval TO/FROM noon p.m. +	1	04	
Result	6	57	29
Acceleration on interval p.m. +			10
Sid. time at Greenwich at birth	6	57	39
Longitude equivalent +E - W -	11	47	
LOCAL SID. TIME AT BIRTH	12		
Subtract 24 hrs. if necessary	29	104	39
	05	104	39

* Delete whichever is not required.

NAME

Diagram (I)

No.

Carryover 06:44:39

No. 2 - The "HOUSES" Chart. DIRECT METHOD

Designed by M.E.HONE.

D M Y

Noon positions on _____ Prog.

Correspond to _____ 19____ Noon Date

P0 _____

P1 _____

P2 _____

P3 _____

P4 _____

Ruling Planet _____ Ruler's House _____

Rising Planet _____ Positive _____

Planet _____ Negative _____

Triplicities:-

Fire _____ Own sign _____

Earth _____ Exalted _____

Air _____ Detriment _____

Water _____ Fall _____

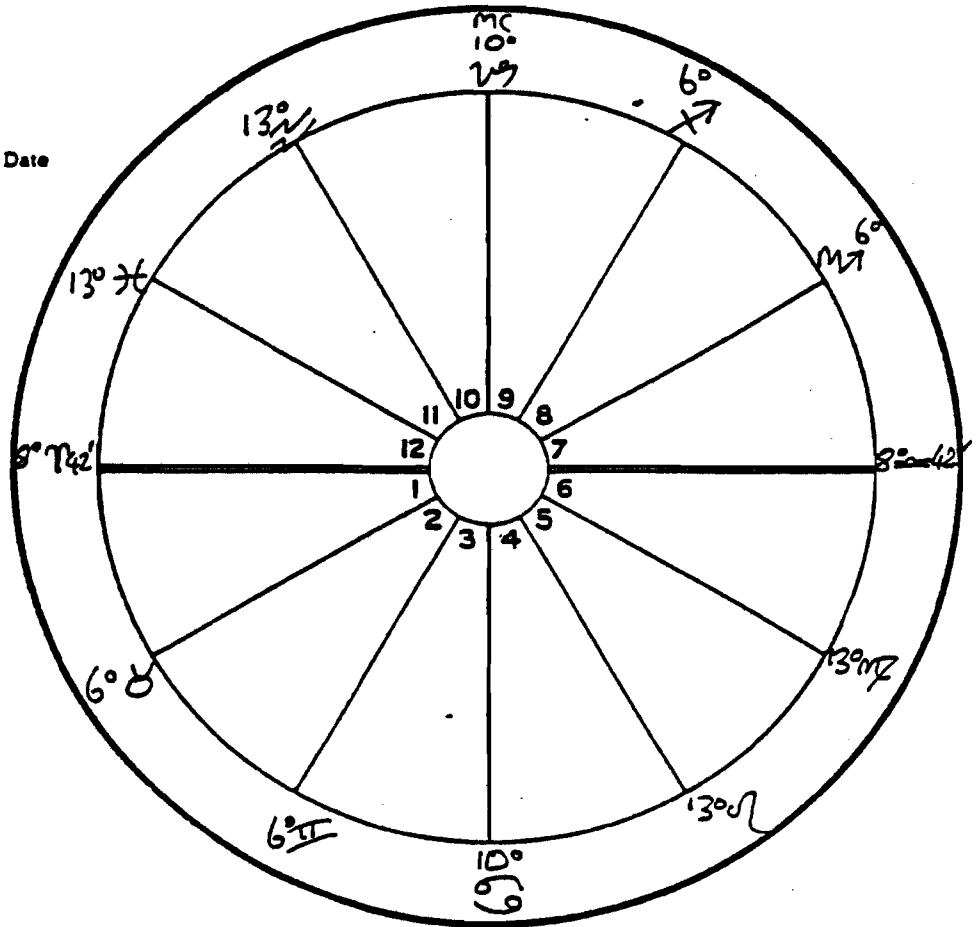
Quadruplicities:-

Cardinal _____ Angular _____

Fixed _____ Succedent _____

Mutable _____ Cadent _____

Mutual Reception _____



PLANET	DEC.	ASPECTS												NOTES	BY DIRECT METHOD			
		☉	☽	☿	♀	♂	♂	♂	♂	♂	♂	♂	♂			D.	M.	Y.
Sun		☉													Birth date			
Moon		☽													Birth place			
Mercury		☿													Latitude			
Venus		♀													Longitude			
Mars		♂													TIME			
Jupiter		♂													Birth time as given			
Saturn		♂													Zone standard "E-W"			
Uranus		♂													Summer (or double) time*			
Neptune		♂													G.M.T.			
Pluto		♂													G.M.T. date			
Asc.		Asc.																
M.C.		M.C.																

NAME Diagram (II) No. _____

TO CALCULATE THE PLANETARY POSITIONS

Using 'Tables of Diurnal Planetary Motion', published by American Federation of Astrologers, Arizona.

(Note: Carry forward GMT of birth e.g. in the example used the GMT was 1.04p.m.

There are two types of tables to use. The format in each are the same.

TABLE 1: (For the calculation of the Sun's position ONLY)

STEP 1

Open up your ephemeris again at the birth date and month, locate the GMT date. Note whether the GMT birth time is before or after the GMT date. If the time is before 12 noon of the date, you will be working with the date before the GMT date, if the GMT birth time is after 12 noon GMT date you will be working with the date after the GMT date.

Our example follows: Refer to example page of ephemeris, table (ii)(a) below.

GMT birth time and date was 1.04p.m. 20/6/82. We want to know the sun's 24 hour motion between 20/6/82 and 21/6/82.

From the ephemeris, the Sun column shows on 21 June 1982 that the
Sun is in II 29° 47' 07"
and on 20th June 1982 Sun is in II 28° 49' 50"

With this particular example, to subtract the 20th from the 21st we will have to carry some hours and minutes over.

Example
" "

Then we subtract

28	<u>II</u>	106	67
- 28	<u>II</u>	49	50
00		57	17

Result being difference and the distance the sun travelled in 24 hours from noon 20th to noon 21st.

Now look up in Table (ii)(b) below the column which heads the numbers 57' 17". Apparently there isn't one so we go to the nearest number (57' 18").

Now remember the GMT birth time on the 20th was 1 hr and 4 mins so taking the four minutes go to the '4' under the heading "Time 0 Hours Min" then follow the rank over until you are under the 57' 18" column.

The answer will be 0' 10".

Then under the column "hours" go to the 1 hour time of birth then across to 57' 18" and you will have 2' 23".

Add these together

	0' 10"
+	<u>2' 23"</u>
	2' 33"

Table (ii)(a)

FULL MOON—June 6, 3h. 59m. p.m. (15° 37')

EPHEMERIS											
JUNE, 1982											
D	M	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.
1	2	3	4	5	6	7	8	9	10	11	12
1	1	11	10	9	18	53	2	3	7	1	1
2	2	10	10	36	3	2	3	7	1	1	1
3	3	10	2	4	12	3	21	1	19	15	40
4	4	9	30	5	22	3	36	1	14	15	40
5	5	8	59	6	31	3	52	1	10	15	38
6	6	8	30	7	41	4	8	1	7	15	37
7	7	8	4	8	51	4	25	1	3	15	36
8	8	7	40	10	1	4	42	0	59	15	35
9	9	7	20	11	1	4	59	0	56	15	34
10	10	7	3	12	5	17	0	53	15	33	1
11	11	6	50	13	31	5	36	0	50	15	32
12	12	6	42	14	42	5	55	0	47	15	32
13	13	6	38	15	52	6	14	0	45	15	31
14	14	6	38	17	2	6	34	0	42	15	31
15	15	6	42	18	13	6	54	0	40	15	30
16	16	6	52	19	23	7	15	0	38	15	30
17	17	7	52	20	33	7	36	0	36	15	30
18	18	7	24	21	44	7	58	0	34	15	30
19	19	7	47	22	55	8	20	0	32	15	30
20	20	8	14	24	5	8	42	0	31	15	30
21	21	8	46	25	16	9	5	0	30	15	30
22	22	8	23	26	27	9	28	0	29	15	31
23	23	10	42	27	38	9	51	0	28	15	31
24	24	10	49	28	48	10	15	0	27	15	32
25	25	11	38	29	59	10	39	0	27	15	32
26	26	12	32	1	10	11	4	0	26	15	33
27	27	13	29	2	21	11	28	0	26	15	34
28	28	14	31	3	32	11	54	0	26	15	35
29	29	15	37	4	43	12	19	0	26	15	36
30	30	16	46	5	54	12	45	0	27	15	37

LAST QUARTER—June 14, 6h. 6m. p.m. (23° 21')

NEW MOON—June 21, 11h. 52m. a.m. (29° 47')

RAPHAEL'S											
JUNE, 1982											
D	M	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.
1	2	3	4	5	6	7	8	9	10	11	12
1	1	4	38	34	10	40	22	2	31	22	11
2	2	4	42	31	37	31	22	1	25	15	9
3	3	4	46	27	34	28	12	1	19	10	7
4	4	50	24	32	34	24	12	1	13	5	5
5	5	4	54	21	34	29	12	1	7	1	3
6	6	4	58	17	34	29	12	1	1	1	1
7	7	5	2	14	16	24	38	2	1	1	1
8	8	5	6	10	17	22	0	2	1	1	1
9	9	5	10	7	18	19	23	2	1	1	1
10	10	5	14	3	19	16	23	2	1	1	1
11	11	5	18	0	20	14	23	2	1	1	1
12	12	5	21	56	21	11	24	3	1	1	1
13	13	5	25	53	22	8	43	3	1	1	1
14	14	5	29	50	23	6	23	3	1	1	1
15	15	5	33	46	24	3	21	3	1	1	1
16	16	5	37	43	25	0	19	3	1	1	1
17	17	5	41	39	25	0	17	3	1	1	1
18	18	5	45	36	26	5	15	3	1	1	1
19	19	5	49	32	27	2	13	3	1	1	1
20	20	5	53	29	28	0	11	3	1	1	1
21	21	5	57	25	29	1	9	3	1	1	1
22	22	6	1	22	30	1	7	3	1	1	1
23	23	6	5	19	31	1	5	3	1	1	1
24	24	6	9	15	32	1	3	3	1	1	1
25	25	6	13	12	33	1	1	3	1	1	1
26	26	6	17	8	34	1	0	3	1	1	1
27	27	6	21	5	35	1	0	3	1	1	1
28	28	6	25	2	36	1	0	3	1	1	1
29	29	6	28	58	7	25	32	1	1	1	1
30	30	6	32	54	8	22	15	1	1	1	1

FIRST QUARTER—June 28, 5h. 56m. a.m. (6° 43')

TABLE I
RATE OF 24-HOUR MOTION

Time 0 Hours Min	57 06	57 12	57 18	57 24	57 30	57 36	57 42	57 48	57 54	58 00
1	0 02	0 02	0 02	0 02	0 02	0 02	0 02	0 02	0 02	0 02
2	0 05	0 05	0 05	0 05	0 05	0 05	0 05	0 05	0 05	0 05
3	0 07	0 07	0 07	0 07	0 07	0 07	0 07	0 07	0 07	0 07
4	0 09	0 10	0 10	0 10	0 10	0 10	0 10	0 10	0 10	0 10
5	0 12	0 12	0 12	0 12	0 12	0 12	0 12	0 12	0 12	0 12
8	0 14	0 14	0 14	0 14	0 14	0 14	0 14	0 14	0 14	0 14
7	0 17	0 17	0 17	0 17	0 17	0 17	0 17	0 17	0 17	0 17
8	0 19	0 19	0 19	0 19	0 19	0 19	0 19	0 19	0 19	0 19
9	0 21	0 21	0 21	0 22	0 22	0 22	0 22	0 22	0 22	0 22
10	0 24	0 24	0 24	0 24	0 24	0 24	0 24	0 24	0 24	0 24
11	0 26	0 26	0 26	0 26	0 26	0 26	0 26	0 27	0 27	0 27
12	0 28	0 29	0 29	0 29	0 29	0 29	0 29	0 29	0 29	0 29
13	0 31	0 31	0 31	0 31	0 31	0 31	0 31	0 31	0 31	0 31
14	0 33	0 33	0 33	0 33	0 34	0 34	0 34	0 34	0 34	0 34
15	0 36	0 36	0 36	0 36	0 36	0 36	0 36	0 36	0 36	0 36
16	0 38	0 38	0 38	0 38	0 38	0 38	0 38	0 39	0 39	0 39
17	0 40	0 40	0 41	0 41	0 41	0 41	0 41	0 41	0 41	0 41
18	0 43	0 43	0 43	0 43	0 43	0 43	0 43	0 43	0 43	0 43
19	0 45	0 45	0 45	0 45	0 46	0 46	0 46	0 46	0 46	0 46
20	0 47	0 48	0 48	0 48	0 48	0 48	0 48	0 48	0 48	0 48
21	0 50	0 50	0 50	0 50	0 50	0 50	0 51	0 51	0 51	0 51
22	0 52	0 52	0 53	0 53	0 53	0 53	0 53	0 53	0 53	0 53
23	0 55	0 55	0 55	0 55	0 55	0 55	0 55	0 55	0 55	0 58
24	0 57	0 57	0 57	0 57	0 57	0 58	0 58	0 58	0 58	0 58
25	0 59	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00
26	1 02	1 02	1 02	1 02	1 02	1 02	1 03	1 03	1 03	1 03
27	1 04	1 04	1 04	1 04	1 05	1 05	1 05	1 05	1 05	1 05
28	1 06	1 07	1 07	1 07	1 07	1 07	1 07	1 07	1 08	1 08
29	1 09	1 09	1 09	1 09	1 09	1 10	1 10	1 10	1 10	1 10
30	1 11	1 11	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12
31	1 14	1 14	1 14	1 14	1 14	1 14	1 15	1 15	1 15	1 15
32	1 16	1 16	1 16	1 16	1 17	1 17	1 17	1 17	1 17	1 17
33	1 18	1 19	1 19	1 19	1 19	1 19	1 19	1 20	1 20	1 20
34	1 21	1 21	1 21	1 22	1 22	1 22	1 22	1 22	1 22	1 22
35	1 23	1 23	1 24	1 24	1 24	1 24	1 24	1 24	1 24	1 24
36	1 25	1 26	1 26	1 26	1 26	1 26	1 27	1 27	1 27	1 27
37	1 28	1 28	1 28	1 28	1 29	1 29	1 29	1 29	1 29	1 29
38	1 30	1 31	1 31	1 31	1 31	1 31	1 31	1 31	1 31	1 31
39	1 33	1 33	1 33	1 33	1 33	1 34	1 34	1 34	1 34	1 34
40	1 35	1 35	1 35	1 36	1 36	1 36	1 36	1 36	1 36	1 37
41	1 37	1 38	1 38	1 38	1 38	1 38	1 38	1 38	1 39	1 39
42	1 40	1 40	1 40	1 40	1 40	1 41	1 41	1 41	1 41	1 41
43	1 42	1 42	1 43	1 43	1 43	1 43	1 43	1 43	1 44	1 44
44	1 44	1 45	1 45	1 45	1 45	1 46	1 46	1 46	1 46	1 46
45	1 47	1 47	1 47	1 48	1 48	1 48	1 48	1 48	1 49	1 49

from "Tables of Diurnal Planetary Motion"

TABLE I
RATE OF 24-HOUR MOTION

Time 0 Hours Min	57 06	57 12	57 18	57 24	57 30	57 36	57 42	57 48	57 54	58 00
46	1 49	1 50	1 50	1 50	1 50	1 50	1 51	1 51	1 51	1 51
47	1 52	1 52	1 52	1 52	1 53	1 53	1 53	1 53	1 53	1 54
48	1 54	1 54	1 55	1 55	1 55	1 55	1 55	1 55	1 56	1 56
49	1 56	1 57	1 57	1 57	1 57	1 58	1 58	1 58	1 58	1 58
50	1 59	1 59	1 59	2 00	2 00	2 00	2 00	2 00	2 00	2 01
51	2 01	2 02	2 02	2 02	2 02	2 02	2 02	2 02	2 03	2 03
52	2 03	2 04	2 04	2 04	2 05	2 05	2 05	2 05	2 05	2 06
53	2 06	2 06	2 06	2 07	2 07	2 07	2 07	2 07	2 08	2 08
54	2 08	2 09	2 09	2 09	2 10	2 10	2 10	2 10	2 10	2 10
55	2 11	2 11	2 11	2 12	2 12	2 12	2 12	2 12	2 13	2 13
56	2 13	2 13	2 14	2 14	2 14	2 14	2 14	2 14	2 15	2 15
57	2 15	2 16	2 16	2 16	2 17	2 17	2 17	2 17	2 18	2 18
58	2 18	2 18	2 18	2 19	2 19	2 19	2 19	2 20	2 20	2 21
59	2 20	2 21	2 21	2 21	2 21	2 22	2 22	2 22	2 22	2 23
60	2 23	2 23	2 23	2 23	2 24	2 24	2 24	2 24	2 25	2 25

Hours	2 23	2 23	2 23	2 23	2 24	2 24	2 24	2 24	2 25	2 25
1	2 23	2 23	2 23	2 23	2 24	2 24	2 24	2 24	2 25	2 25
2	4 45	4 46	4 46	4 47	4 47	4 48	4 48	4 49	4 49	4 50
3	7 08	7 09	7 10	7 10	7 11	7 12	7 13	7 13	7 14	7 15
4	9 31	9 32	9 33	9 34	9 35	9 36	9 37	9 38	9 39	9 40
5	11 54	11 55	11 56	11 57	11 59	12 00	12 01	12 02	12 04	12 05
6	14 16	14 18	14 19	14 21	14 22	14 24	14 25	14 27	14 28	14 30
7	16 39	16 41	16 43	16 44	16 46	16 48	16 50	16 51	16 53	16 55
8	19 02	19 04	19 06	19 08	19 10	19 12	19 14	19 16	19 18	19 20
9	21 25	21 27	21 29	21 31	21 34	21 36	21 38	21 40	21 43	21 45
10	23 47	23 50	23 52	23 55	23 57	24 00	24 02	24 05	24 07	24 10
11	26 10	26 13	26 16	26 18	26 21	26 24	26 27	26 29	26 32	26 35
12	28 33	28 36	28 39	28 42	28 45	28 48	28 51	28 54	28 57	29 00
13	30 56	30 59	31 02	31 05	31 09	31 12	31 15	31 18	31 22	31 25
14	33 18	33 22	33 25	33 29	33 32	33 36	33 39	33 43	33 46	33 50
15	35 41	35 45	35 49	35 52	35 56	36 00	36 04	36 07	36 11	36 15
16	38 04	38 08	38 12	38 16	38 20	38 24	38 28	38 32	38 36	38 40
17	40 27	40 31	40 35	40 40	40 44	40 48	40 52	40 56	41 01	41 05
18	42 49	42 54	42 58	43 03	43 07	43 12	43 16	43 21	43 25	43 30
19	45 12	45 17	45 22	45 27	45 31	45 36	45 41	45 45	45 50	45 55
20	47 35	47 40	47 45	47 50	47 55	48 00	48 05	48 10	48 15	48 20
21	49 58	50 03	50 08	50 14	50 18	50 24	50 29	50 34	50 40	50 45
22	52 20	52 26	52 31	52 37	52 42	52 48	52 53	52 59	53 04	53 10
23	54 43	54 49	54 55	55 00	55 06	55 12	55 18	55 23	55 29	55 35
24	57 06	57 12	57 18	57 24	57 30	57 36	57 42	57 48	57 54	58 00

Table for Sun (ii)(b)

Add the result (2' 33") to the Sun's position before the time of birth. In this case it is the position on the 20th.

$$\begin{array}{r} \odot 28^{\circ} \text{ II } 49' 50'' \\ + \quad \quad 2' 33'' \\ \hline 28^{\circ} \quad 51' 83'' \end{array}$$

Carry mins and secs over

$$\odot 28^{\circ} \text{ II } 52' 23''$$

Now check down the sun column in the ephemeris for the zodiac sign the sun is in on the GMT day.

Our example shows:

Therefore the answer is

$$\odot 28^{\circ} \text{ II } 52' 23''$$

i.e. the sun is 28 degrees Gemini, 52 minutes and 23 seconds.

$\odot 28^{\circ} \text{ II } 52' 23''$ will be transferred to your horoscope.

TABLE II (for all other planets)

Same method as for Table I. Carry forward 1.04p.m. hours.

For the Moon:- (see tables (ii)(c) and (ii)(d))

$$\begin{array}{rcl} \text{Don 21st } 29^{\circ} \text{ II } 51' 30'' & \text{Carry over Sec} & 29^{\circ} \text{ II } 50' 90'' \\ \text{Don 20th } 14^{\circ} \text{ II } 40' 33'' & \text{Minus} & - 14^{\circ} \text{ II } 40' 33'' \\ \hline \text{Result, motion of moon in 24 hours} & & = 15^{\circ} \quad 10' 57'' \end{array}$$

Looking up heading in Table II of $15^{\circ} 11'$

$$\begin{array}{rcl} 4' & = & 2' 32'' \\ 1 \text{ hr} & = & +37' 57'' \\ \hline & & 39' 89'' \end{array}$$

Carry Over 40' 29"

Add to the 20th Moon position
e.g. remember the moon has moved from
noon 20th so the motion must be added
to get the position at birth.

$$\begin{array}{r} 14^{\circ} \text{ II } 40' 33'' \\ + \quad \quad 40' 29'' \\ \hline = 14^{\circ} \text{ II } 80' 62'' \end{array}$$

which equals

$$\odot 15^{\circ} \text{ II } 21' 02'' \text{ This figure is transferred to the horoscope.}$$

For Mercury:- (see Table iii and table iv)

On looking down the Mercury column you will see an R and a D. Mercury had gone Retrograde in motion then Direct in motion before the GMT date, therefore the planet motion would be direct and the calculation made as above.

$$\begin{array}{rcl} \text{on 21st} & & 8^{\circ} \text{ II } 46' \\ \text{on 20th} & - & 8^{\circ} \quad 14' \\ \hline + \text{ 24hr motion being} & & 0^{\circ} \quad 32' \end{array}$$

Table (ii)(c)

FULL MOON—June 6, 3h. 59m. p.m. (15° 1 37')

EPHEMERIS

JUNE, 1982

13

D	M	W	L	S	P	U	N	J	S	P	L	A	
Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	
11119	9	1853	2	53	1m27	15	44	2	16	26	1	524	
210	136	3	2	3	7	1423	15	44	2	16	26	1	
310	2	4	12	3	21	1	1915	41	2	12	26	2	
4	9	30	5	22	3	36	1	1415	40	2	926	124	
5	8	59	6	33	3	52	1	1015	38	2	725	5924	
6	8	30	7	41	4	8	1	715	37	2	425	5724	
7	7	40	10	1	4	25	1	315	36	2	225	5624	
8	7	40	10	1	4	42	0	5915	35	2	025	5424	
9	7	20	11	1	4	59	0	5615	34	1	5725	5324	
10	7	312	21	5	17	0	5315	33	1	5525	5124	17	
11	6	5013	31	5	36	0	5015	32	1	5225	4924	16	
12	6	4214	42	5	55	0	4715	32	1	5025	4824	15	
13	6	3815	52	6	14	0	4515	31	1	4825	4624	14	
14	6	3817	2	6	34	0	4215	31	1	4625	4524	13	
15	6	4218	13	6	54	0	4015	30	1	4325	4324	13	
16	6	5219	23	7	15	0	3815	30	1	4125	4124	13	
17	7	520	33	7	36	0	3615	30	1	3925	4024	12	
18	7	2421	44	7	58	0	3415	30	1	3725	3824	11	
19	7	4722	55	8	20	0	3215	30	1	3525	3724	11	
20	8	1424	5	8	42	0	3115	30	1	3225	3524	10	
21	8	4625	16	9	5	0	3015	30	1	3025	3324	10	
22	9	2326	27	9	28	0	2915	31	1	2825	3224	10	
23	10	427	38	9	51	0	2815	31	1	2625	3024	9	
24	10	4928	48	10	15	0	2715	32	1	2425	2824	9	
25	11	3829	59	10	39	0	2615	32	1	2225	2724	9	
26	12	32	1	10	11	4	2615	33	1	2025	2524	8	
27	13	29	2	11	11	28	0	2615	34	1	1825	2424	8
28	14	31	3	12	11	54	0	2615	35	1	1625	2224	8
29	15	37	4	13	12	19	0	2615	36	1	1525	2124	8
30	16	46	5	14	12	45	0	2715	37	1	1325	1924	7

D	M	W	L	S	P	U	N	J	S	P	L	A	
Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	
11119	9	1853	2	53	1m27	15	44	2	16	26	1	524	
210	136	3	2	3	7	1423	15	44	2	16	26	1	
310	2	4	12	3	21	1	1915	41	2	12	26	2	
4	9	30	5	22	3	36	1	1415	40	2	926	124	
5	8	59	6	33	3	52	1	1015	38	2	725	5924	
6	8	30	7	41	4	8	1	715	37	2	425	5724	
7	7	40	10	1	4	25	1	315	36	2	225	5624	
8	7	40	10	1	4	42	0	5915	35	2	025	5424	
9	7	20	11	1	4	59	0	5615	34	1	5725	5324	
10	7	312	21	5	17	0	5315	33	1	5525	5124	17	
11	6	5013	31	5	36	0	5015	32	1	5225	4924	16	
12	6	4214	42	5	55	0	4715	32	1	5025	4824	15	
13	6	3815	52	6	14	0	4515	31	1	4825	4624	14	
14	6	3817	2	6	34	0	4215	31	1	4625	4524	13	
15	6	4218	13	6	54	0	4015	30	1	4325	4324	13	
16	6	5219	23	7	15	0	3815	30	1	4125	4124	13	
17	7	520	33	7	36	0	3615	30	1	3925	4024	12	
18	7	2421	44	7	58	0	3415	30	1	3725	3824	11	
19	7	4722	55	8	20	0	3215	30	1	3525	3724	11	
20	8	1424	5	8	42	0	3115	30	1	3225	3524	10	
21	8	4625	16	9	5	0	3015	30	1	3025	3324	10	
22	9	2326	27	9	28	0	2915	31	1	2825	3224	10	
23	10	427	38	9	51	0	2815	31	1	2625	3024	9	
24	10	4928	48	10	15	0	2715	32	1	2425	2824	9	
25	11	3829	59	10	39	0	2615	32	1	2225	2724	9	
26	12	32	1	10	11	4	2615	33	1	2025	2524	8	
27	13	29	2	11	11	28	0	2615	34	1	1825	2424	8
28	14	31	3	12	11	54	0	2615	35	1	1625	2224	8
29	15	37	4	13	12	19	0	2615	36	1	1525	2124	8
30	16	46	5	14	12	45	0	2715	37	1	1325	1924	7

D	M	W	L	S	P	U	N	J	S	P	L	A	
Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	
11119	9	1853	2	53	1m27	15	44	2	16	26	1	524	
210	136	3	2	3	7	1423	15	44	2	16	26	1	
310	2	4	12	3	21	1	1915	41	2	12	26	2	
4	9	30	5	22	3	36	1	1415	40	2	926	124	
5	8	59	6	33	3	52	1	1015	38	2	725	5924	
6	8	30	7	41	4	8	1	715	37	2	425	5724	
7	7	40	10	1	4	25	1	315	36	2	225	5624	
8	7	40	10	1	4	42	0	5915	35	2	025	5424	
9	7	20	11	1	4	59	0	5615	34	1	5725	5324	
10	7	312	21	5	17	0	5315	33	1	5525	5124	17	
11	6	5013	31	5	36	0	5015	32	1	5225	4924	16	
12	6	4214	42	5	55	0	4715	32	1	5025	4824	15	
13	6	3815	52	6	14	0	4515	31	1	4825	4624	14	
14	6	3817	2	6	34	0	4215	31	1	4625	4524	13	
15	6	4218	13	6	54	0	4015	30	1	4325	4324	13	
16	6	5219	23	7	15	0	3815	30	1	4125	4124	13	
17	7	520	33	7	36	0	3615	30	1	3925	4024	12	
18	7	2421	44	7	58	0	3415	30	1	3725	3824	11	
19	7	4722	55	8	20	0	3215	30	1	3525	3724	11	
20	8	1424	5	8	42	0	3115	30	1	3225	3524	10	
21	8	4625	16	9	5	0	3015	30	1	3025	3324	10	
22	9	2326	27	9	28	0	2915	31	1	2825	3224	10	
23	10	427	38	9	51	0	2815	31	1	2625	3024	9	
24	10	4928	48	10	15	0	2715	32	1	2425	2824	9	
25	11	3829	59	10	39	0	2615	32	1	2225	2724	9	
26	12	32	1	10	11	4	2615	33	1	2025	2524	8	
27	13	29	2	11	11	28	0	2615	34	1	1825	2424	8
28	14	31	3	12	11	54	0	2615	35	1	1625	2224	8
29	15	37	4	13	12	19	0	2615	36	1	1525	2124	8
30	16	46	5	14	12	45	0	2715	37	1	1325	1924	7

D	M	W	L	S	P	U	N	J	S	P	L	A	
Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	
11119	9	1853	2	53	1m27	15	44	2	16	26	1	524	
210	136	3	2	3	7	1423	15	44	2	16	26	1	
310	2	4	12	3	21	1	1915	41	2	12	26	2	
4	9	30	5	22	3	36	1	1415	40	2	926	124	
5	8	59	6	33	3	52	1	1015	38	2	725	5924	
6	8	30	7	41	4	8	1	715	37	2	425	5724	
7	7	40	10	1	4	25	1	315	36	2	225	5624	
8	7	40	10	1	4	42	0	5915	35	2	025	5424	
9	7	20	11	1	4	59	0	5615	34	1	5725	5324	
10	7	312	21	5	17	0	5315	33	1	5525	5124	17	
11	6	5013	31	5	36	0	5015	32	1	5225	4924	16	
12	6	4214	42	5	55	0	4715	32	1	5025	4824	15	
13	6	3815	52	6	14	0	4515	31	1	4825	4624	14	
14	6	3817	2	6	34	0	4215	31	1	4625	4524	13	
15	6	4218	13	6	54	0	4015	30	1	4325	4324	13	
16	6	5219	23	7	15	0	3815	30	1	4125	4124	13	
17	7	520	33	7	36	0	3615	30	1	3925	4024	12	
18	7	2421	44	7	58	0	3415	30	1	3725	3824	11	
19	7	4722	55	8	20	0	3215	30	1	3525	3724	11	
20	8	1424	5	8	42	0	3115	30	1	3225	3524	10	
21	8	4625	16	9	5	0	3015	30	1	3025	3324	10	
22	9	2326	27	9	28	0	2915	31	1	2825	3224	10	
23	10	427	38	9	51	0	2815	31	1	2625	3024	9	
24	10	4928	48	10	15	0	2715	32	1	2425	2824	9	
25	11	3829	59	10	39	0	2615	32	1	2225	2724	9	
26	12	32	1	10	11	4	2615	33	1	2025	2524	8	
27	13	29	2	11	11	28	0	2615	34	1	1825	2424	8
28	14	31	3	12	11	54	0	2615	35	1	1625	2224	8

LAST QUARTER—June 14, 6h. 6m. p.m. (23° 11 21')

NEW MOON—June 21, 11h. 52m. a.m. (29° 11 47')

IRAPHAEL'S												
JUNE, 1982												
D	M	W	L	S	P	U	N	J	S	P	L	A
Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.
1	25	1419	54	19	34	2	510	10	34	2	510	10
2	45	19	14	18	55	2	510	10	34	2	510	10
3	2	45	19	14	18	55	2	510	10	34	2	510
4	4	50	24	13	32	2	412	29	12	2	412	29
5	4	54	21	14	29	50	22	32	1	43	39	1
6	4	58	17	15	27	14	22	39	13	38	62	3
7	5	2	14	16	24	38	22	45	28	11	37	1
8	5	10	17	22	0	22	50	7	16	20	34	2
9	5	14	7	18	19	22	52	56	19	4	50	3
10	5	18	0	20	16	43	33	1	0	55	12	1
11	5	21	56	21	11	24	33	9	25	52	46	2
12	5	25	53	22	8	43	23	12	7	54	44	3
13	5	29	50	23	6	23	16	20	3	26	4	3
14	5	33	46	24	3	21	18	3	6	35	11	3
15	5	37	43	25	0	39	23	21	16	35	12	3
16	5	41	39	25	57	57	23	23	0	30	54	3
17	5	45	36	26	55	15	23	24	14	53	14	3
18	5	49	32	27	52	33	25	29	38	16	3	3
19	5	53	29	28	49	50	23	26	14	40	3	3
20	5	57	25	29	47	7	23	20	29	31	30	3
21	6	1	22	0	44	23	23	26	15	30	2	3
22	6	5	19	1	39	23	26	0	1	31	21	3
23	6	9	15	2	38	55	23	25	14	43	53	2
24	6	13	12	3	36	10	21	24	29	3	10	3
25	6	17	8	4	33	24	23	22	12	27	56	3
26	6	21	5	5	30	27	23	20	26	24	53	3
27	6	25	2	6	27	50	23	17	9	28	45	3
28	6	28	58	7	25	32	14	22	11	22	14	3
29	6	32	54	8	22	15	13	11	4	36	13	3
30	6	36	50	9	19	10	10	10	10	10	10	3

FIRST QUARTER—June 28, 5h. 56m. a.m. (6° 11 31')

"Raphael's Astronomical Ephemeris of Planets' Places for 1982", W. Foulsham & Co, England.

TABLE II
RATE OF 24-HOUR MOTION

Time 0 Hours Min.	15°11'	15°12'	15°13'	15°14'	15°15'	15°16'	15°17'
1	0 38	0 38	0 38	0 38	0 38	0 38	0 38
2	1 18	1 16	1 16	1 16	1 16	1 16	1 16
3	1 54	1 54	1 54	1 54	1 54	1 54	1 55
4	2 32	2 32	2 32	2 32	2 32	2 33	2 33
5	3 10	3 10	3 10	3 10	3 11	3 11	3 11
6	3 48	3 48	3 48	3 48	3 49	3 49	3 49
7	4 26	4 26	4 26	4 27	4 27	4 27	4 28
8	5 04	5 04	5 04	5 05	5 05	5 05	5 06
9	5 42	5 42	5 42	5 43	5 43	5 43	5 44
10	6 20	6 20	6 20	6 21	6 21	6 22	6 22
11	6 58	6 58	6 58	6 59	6 59	7 00	7 00
12	7 35	7 36	7 36	7 37	7 37	7 38	7 38
13	8 13	8 14	8 15	8 15	8 16	8 16	8 17
14	8 51	8 52	8 53	8 53	8 54	8 54	8 55
15	9 29	9 30	9 31	9 31	9 32	9 32	9 33
16	10 07	10 08	10 09	10 09	10 10	10 11	10 11
17	10 45	10 46	10 47	10 47	10 48	10 49	10 50
18	11 23	11 24	11 25	11 25	11 26	11 27	11 28
19	12 01	12 02	12 03	12 04	12 04	12 05	12 06
20	12 39	12 40	12 41	12 42	12 42	12 43	12 44
21	13 17	13 18	13 19	13 20	13 21	13 21	13 22
22	13 55	13 56	13 57	13 58	13 59	14 00	14 01
23	14 33	14 34	14 35	14 36	14 37	14 38	14 39
24	15 11	15 12	15 13	15 14	15 15	15 16	15 17
25	15 49	15 50	15 51	15 52	15 53	15 54	15 55
26	16 27	16 28	16 29	16 30	16 31	16 32	16 33
27	17 05	17 06	17 07	17 08	17 09	17 10	17 12
28	17 43	17 44	17 45	17 46	17 48	17 49	17 50
29	18 21	18 22	18 23	18 24	18 26	18 27	18 28
30	18 59	19 00	19 01	19 02	19 04	19 05	19 06
31	19 37	19 38	19 39	19 41	19 42	19 43	19 44
32	20 15	20 16	20 17	20 19	20 20	20 21	20 23
33	20 53	20 54	20 55	20 57	20 58	20 59	21 01
34	21 31	21 32	21 33	21 35	21 36	21 38	21 39
35	22 09	22 10	22 11	22 13	22 14	22 16	22 17
36	22 46	22 48	22 49	22 51	22 52	22 54	22 55
37	23 24	23 25	23 27	23 28	23 30	23 31	23 33
38	24 02	24 04	24 06	24 07	24 09	24 10	24 12
39	24 40	24 42	24 44	24 45	24 47	24 48	24 50
40	25 18	25 20	25 22	25 23	25 25	25 27	25 28
41	25 56	25 58	26 00	26 01	26 03	26 05	26 07
42	26 34	26 36	26 38	26 39	26 41	26 43	26 45
43	27 12	27 14	27 16	27 18	27 19	27 21	27 23
44	27 50	27 52	27 54	27 56	27 57	27 59	28 01
45	28 28	28 30	28 32	28 34	28 36	28 37	28 39

from "Tables of Diurnal Planetary Motion"

TABLE II
RATE OF 24-HOUR MOTION

Time 0 Hours Min.	15°11'	15°12'	15°13'	15°14'	15°15'	15°16'	15°17'
46	29 06	29 08	29 10	29 12	29 14	29 16	29 18
47	29 44	29 46	29 48	29 50	29 52	29 54	29 56
48	30 22	30 24	30 26	30 28	30 30	30 32	30 34
49	31 00	31 02	31 04	31 06	31 08	31 10	31 12
50	31 38	31 40	31 42	31 44	31 46	31 48	31 50
51	32 18	32 18	32 20	32 22	32 24	32 26	32 29
52	32 54	32 56	32 58	33 00	33 02	33 05	33 07
53	33 32	33 34	33 36	33 38	33 41	33 43	33 45
54	34 10	34 12	34 14	34 16	34 19	34 21	34 23
55	34 48	34 50	34 53	34 55	34 57	34 59	35 02
56	35 28	35 28	35 30	35 33	35 35	35 37	35 40
57	36 03	36 06	36 08	36 10	36 13	36 15	36 18
58	36 42	36 44	36 46	36 49	36 51	36 54	36 56
59	37 19	37 22	37 24	37 27	37 29	37 32	37 34
60	37 57	38 00	38 02	38 05	38 07	38 10	38 12

Hours	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	37 57	38 00	38 02	38 05	38 07	38 10	38 12	1 15 55	1 16 00	1 16 05	1 16 10	1 16 15	1 16 20	1 16 25	1 16 30	1 16 35	1 16 40	1 16 45	1 16 50	1 16 55	1 17 00	1 17 05	1 17 10	1 17 15	1 17 20
2	1 15 55	1 16 00	1 16 05	1 16 10	1 16 15	1 16 20	1 16 25	1 16 30	1 16 35	1 16 40	1 16 45	1 16 50	1 16 55	1 17 00	1 17 05	1 17 10	1 17 15	1 17 20	1 17 25	1 17 30	1 17 35	1 17 40	1 17 45	1 17 50	1 17 55
3	1 16 30	1 16 35	1 16 40	1 16 45	1 16 50	1 16 55	1 17 00	1 17 05	1 17 10	1 17 15	1 17 20	1 17 25	1 17 30	1 17 35	1 17 40	1 17 45	1 17 50	1 17 55	1 18 00	1 18 05	1 18 10	1 18 15	1 18 20	1 18 25	1 18 30
4	2 31 50	2 32 00	2 32 10	2 32 20	2 32 30	2 32 40	2 32 50	2 33 00	2 33 10	2 33 20	2 33 30	2 33 40	2 33 50	2 34 00	2 34 10	2 34 20	2 34 30	2 34 40	2 34 50	2 35 00	2 35 10	2 35 20	2 35 30	2 35 40	2 35 50
5	3 09 47	3 10 00	3 10 12	3 10 25	3 10 37	3 10 50	3 11 02	3 11 15	3 11 28	3 11 41	3 11 54	3 12 07	3 12 20	3 12 33	3 12 46	3 12 59	3 13 12	3 13 25	3 13 38	3 13 51	3 14 04	3 14 17	3 14 30	3 14 43	3 14 56
6	3 47 45	3 48 00	3 48 15	3 48 30	3 48 45	3 49 00	3 49 15	3 49 30	3 49 45	3 49 59	3 50 14	3 50 29	3 50 43	3 50 58	3 51 13	3 51 27	3 51 42	3 51 56	3 52 11	3 52 25	3 52 40	3 52 54	3 53 09	3 53 23	3 53 38
7	4 25 42	4 26 00	4 26 17	4 26 35	4 26 52	4 27 10	4 27 27	4 27 44	4 28 02	4 28 19	4 28 36	4 28 53	4 29 10	4 29 27	4 29 44	4 29 61	4 30 18	4 30 35	4 30 52	4 31 09	4 31 26	4 31 43	4 32 00	4 32 17	4 32 34
8	5 03 40	5 04 00	5 04 20	5 04 40	5 05 00	5 05 20	5 05 40	5 06 00	5 06 20	5 06 40	5 07 00	5 07 20	5 07 40	5 08 00	5 08 20	5 08 40	5 09 00	5 09 20	5 09 40	5 09 59	5 10 19	5 10 39	5 10 59	5 11 19	5 11 39
9	5 41 37	5 42 00	5 42 22	5 42 45	5 43 07	5 43 30	5 43 52	5 44 15	5 44 37	5 44 59	5 45 22	5 45 44	5 46 07	5 46 29	5 46 51	5 47 14	5 47 36	5 47 59	5 48 21	5 48 43	5 49 05	5 49 28	5 49 50	5 50 12	5 50 34
10	6 19 35	6 20 00	6 20 25	6 20 50	6 21 15	6 21 40	6 22 05	6 22 30	6 22 55	6 23 20	6 23 45	6 24 10	6 24 35	6 25 00	6 25 25	6 25 50	6 26 15	6 26 40	6 27 05	6 27 30	6 27 55	6 28 20	6 28 45	6 29 10	6 29 35
11	6 57 32	6 58 00	6 58 27	6 58 55	6 59 22	6 59 50	7 00 17	7 00 45	7 01 12	7 01 40	7 02 07	7 02 35	7 03 02	7 03 30	7 03 57	7 04 25	7 04 52	7 05 20	7 05 47	7 06 15	7 06 42	7 07 10	7 07 37	7 08 05	7 08 32
12	7 35 30	7 36 00	7 36 30	7 37 00	7 37 30	7 38 00	7 38 30	7 39 00	7 39 30	7 39 59	7 40 29	7 40 59	7 41 29	7 41 59	7 42 29	7 42 59	7 43 29	7 43 59	7 44 29	7 44 59	7 45 29	7 45 59	7 46 29	7 46 59	7 47 29
13	8 13 27	8 14 00	8 14 32	8 15 05	8 15 37	8 16 10	8 16 42	8 17 15	8 17 47	8 18 20	8 18 52	8 19 25	8 19 57	8 20 30	8 21 02	8 21 35	8 22 07	8 22 40	8 23 12	8 23 45	8 24 17	8 24 50	8 25 22	8 25 55	8 26 27
14	8 51 25	8 52 00	8 52 35	8 53 10	8 53 45	8 54 20	8 54 55	8 55 29	8 56 04	8 56 39	8 57 14	8 57 49	8 58 24	8 58 59	8 59 34	8 59 59	9 00 24	9 00 49	9 01 14	9 01 39	9 02 04	9 02 29	9 02 54	9 03 19	9 03 44
15	9 29 22	9 30 00	9 30 37	9 31 15	9 31 52	9 32 30	9 33 07	9 33 45	9 34 22	9 34 59	9 35 37	9 36 14	9 36 51	9 37 29	9 38 06	9 38 43	9 39 20	9 39 57	9 40 34	9 41 11	9 41 48	9 42 25	9 43 02	9 43 39	9 44 16
16	10 07 20	10 08 00	10 08 40	10 09 20	10 10 00	10 10 40	10 11 20	10 12 00	10 12 40	10 13 20	10 14 00	10 14 40	10 15 20	10 16 00	10 16 40	10 17 20	10 18 00	10 18 40	10 19 20	10 20 00	10 20 40	10 21 20	10 22 00	10 22 40	10 23 20
17	10 45 17	10 46 00	10 46 42	10 47 25	10 48 07	10 48 50	10 49 32	10 50 15	10 50 58	10 51 41	10 52 24	10 53 07	10 53 50	10 54 33	10 55 16	10 55 59	10 56 42	10 57 25	10 58 08	10 58 51	10 59 34	10 59 57	11 00 40	11 01 23	11 02 06
18	11 23 15	11 24 00	11 24 45	11 25 30	11 26 15	11 27 00	11 27 45	11 28 30	11 29 15	11 30 00	11 30 45	11 31 30	11 32 15	11 33 00	11 33 45	11 34 30	11 35 15	11 36 00	11 36 45	11 37 30	11 38 15	11 39 00	11 39 45	11 40 30	11 41 15
19	12 01 13	12 02 00	12 02 47	12 03 35	12 04 22	12 05 10	12 05 57	12 06 45	12 07 32	12 08 20	12 09 07	12 09 55	12 10 42	12 11 30	12 12 17	12 13 05	12 13 52	12 14 40	12 15 27	12 16 15	12 17 02	12 17 50	12 18 37	12 19 25	12 20 12
20	12 39 10	12 40 00	12 40 50	12 41 40	12 42 30	12 43 20	12 44 10	12 45 00	12 45 50	12 46 40	12 47 30	12 48 20	12 49 10	12 50 00	12 50 50	12 51 40	12 52 30	12 53 20	12 54 10	12 55 00	12 55 50	12 56 40	12 57 30	12 58 20	12 59 10
21	13 17 07	13 18 00	13 18 52	13 19 45	13 20 37	13 21 30	13 22 22	13 23 15	13 24 07	13 25 00	13 25 52	13 26 45	13 27 37	13 28 30	13 29 22	13 30 15	13 31 07	13 32 00	13 32 52	13 33 45	13 34 37	13 35 30	13 36 22	13 37 15	13 38 07
22	13 55 05	13 56 00	13 56 55	13 57 50	13 58 45	13 59 40	14 00 35	14 01 30	14 02 25	14 03 20	14 04 15	14 05 10	14 06 05	14 07 00	14 07 55	14 08 50	14 09 45	14 1	14 1	14 1	14 1	14 1	14 1	14 1	14 1
23	14 33 02	14 34 00	14 34 57	14 35 55	14 36 52	14 37 50	14 38 47	14 39 45	14 40 42	14 41 40	14 42 37	14 43 35	14 44 32	14 45 30	14 46 27	14 47 25	14 48 22	14 49 20	14 50 17	14 51 15	14 52 12	14 53 10	14 54 07	14 55 05	14 56 02
24	15 11 00	15 12 00	15 13 00	15 14 00	15 15 00	15 16 00	15 17 00	15 18 00	15 19 00	15 20 00	15 21 00	15 22 00	15 23 00	15 24 00	15 25 00	15 26 00	15 27 00	15 28 00	15 29 00	15 30 00	15 31 00	15 32 00	15 33 00	15 34 00	15 35 00

In the table

32' column for 4'

32' column for 1hr +

0' 05"

1' 20"

1' 25"

which is added to the Mercury position on 20th

= Mercury position at 1.04 p.m. GMT

$$\begin{array}{r} 08^{\circ} \text{ II } 14' \\ + \quad \quad 01' 25'' \\ \hline 8^{\circ} \text{ II } 15' 25'' \end{array}$$

For Venus:-

$$\begin{array}{r} 25^{\circ} \text{ } \text{♄} \quad 16' \\ - 24^{\circ} \quad \quad 5'' \\ \hline 1^{\circ} \quad 11' \end{array}$$

from 1° 11' column

$$\begin{array}{r} 0' 11'' \\ + 2' 57'' \\ \hline 2' 69'' \\ = 3' 09'' \end{array}$$

$$\begin{array}{r} 24^{\circ} \text{ } \text{♄} \quad 5' 00'' \\ + \quad \quad \quad 3' 09'' \\ \hline \text{♀ } 24^{\circ} \text{ } \text{♄} \quad 8' 09'' \end{array}$$

For Mars:-

$$\begin{array}{r} 9^{\circ} \text{ } \text{♂} \quad 5' \\ - 8^{\circ} \quad \quad 42'' \\ \hline 0^{\circ} \quad 23' \end{array}$$

from 0° 23' column

$$\begin{array}{r} 0' 04'' \\ + 0' 57'' \\ \hline 1' 01'' \end{array}$$

$$\begin{array}{r} 8^{\circ} \text{ } \text{♂} \quad 42' 00'' \\ + \quad \quad \quad 1' 01'' \\ \hline \text{♂ } 8^{\circ} \text{ } \text{♂} \quad 43' 1'' \end{array}$$

For Jupiter:- Note Jupiter goes Retrograde (♅) before the 20th and 21st and turns direct after these dates, therefore Jupiter is still considered ♅. In this event the last calculation is subtracted. This method is used with

$$\begin{array}{r} 20\text{th} \quad 0^{\circ} \text{ } \text{♃} \quad 31' \quad \text{note less figure} \\ 21\text{st} \quad - 0^{\circ} \quad \quad 30' \quad \text{subtracted from} \\ \quad \quad \quad \quad \quad 1' \quad \text{greater.} \end{array}$$

No figure in 4' rank of 1' column.

2" in 1 hr rank and 1' column.

on the 20th Jupiter is 31' into scorpio. 60" (1min) will have to be carried over to the seconds column to subtract the 2" from the tables.

$$\begin{array}{r} 20\text{th} \quad \text{♅} \quad 0^{\circ} \quad 30' 60'' \\ \text{minus} \quad - \quad \quad \quad 02'' \\ \hline \text{♅ } 0^{\circ} \quad 30' 58'' \end{array}$$

If there had been no apparent motion between the 20th and 21st retrograde figures, the figures in the ephemeris would be copied straight onto the horoscope and considered Retrograde Stationary (RS).

NEW MOON—June 21, 11h. 52m. a.m. (29° ± 47')

FULL MOON—June 6, 3h. 59m. p.m. (15° ± 37')

"Raphael's Astronomical Ephemeris of Planets' Places for 1982", W. Foulsham & Co, England.

JUNE, 1982 [RAPHAEL'S												MIDNIGHT	
D	D	Sidereal	Long.	Dec.	Long.	Lat.	Dec.	Node	Long.	Dec.		Long.	Dec.
MW	Time	M. S.											
1 Tu	4 38 34	10 40	22 N 31	12 44	05 N 12	OS 14	15 10	19 15	2 S 39				
2 W	4 42 31	11 37	31 22	11 25	15 95	6 S	115	7 11 26	0 7 19				
3 Th	4 46 27	12 34	58 22	18 7 34	44 46	9 32	15	4 13 39	38 11 38				
4 F	4 50 24	13 32	24 22	26 19	42 55	13 13	36 15	0 25 44	11 15 26				
5 S	4 54 21	14 32	19 22	32 1 43	39 3	29 17	6 14	57 7 41	32 18 35				
6 Sa	4 58 17	15 27	14 22	39 13	38 62	36 19	51 14	54 19 33	34 20 55				
7 M	5 2 14	16 24	38 22	45 25	28 11	37 21	45 14	51 11 52	15 22 20				
8 Tu	5 6 10	17 22	0 22	50 7 16	20 N 34	42 14	48 13	9 52	22 46				
9 W	5 10 7	18 19	22 22	56 19	4 50 S	31 22	36 14	45 24	59 32 10				
10 Th	5 14 3	19 16	43 23	1 0 55	12 1	35 21	30 14	41 6 52	57 20 35				
11 F	5 18 0	20 14	4 23	5 12	52 46	2 36	19	26 14	38 18 55	9 18 4			
12 S	5 21 56	21 11	24 23	9 25	0 35	30 16	29 14	35 1 9	36 14 42				
13 Sa	5 25 53	22 8	43 23	12 7 22	44 4	16 12	45 14	32 13	40 31 10 38				
14 M	5 29 50	23 6	2 23	16 20	3 26	50 8	23 14	29 26	31 59 6 0				
15 Tu	5 33 46	24 3	21 23	18 3 7	6 35	11 35	31 14	25 9 7	47 34 05 57				
16 W	5 37 43	25 0	39 23	21 16	35 125	16 1 N	40 14	22 23	29 39 4 N 18				
17 Th	5 41 39	25 57	57 23	23 0 8	30 545	2 6	56 14	19 7 8	38 47 9 31				
18 F	5 45 36	26 55	15 23	24 14	53 14	30 12	0 14	16 22	13 4 14 21				
19 S	5 49 32	27 53	33 23	25 29	38 16	39 16	31 14	13 7 11	7 46 18 25				
20 Sa	5 53 29	28 49	50 23	26 14	40 33	2 20	21 14	10 22	15 31 21 19				
21 M	5 57 25	29 47	7 23	26 29	51 30	15 14	22 13	6 7 27	15 22 41				
22 Tu	6 1 22	30 44	23 23	26 15	1 36	0 N	9 22	45 14	32 23 34 22 23				
23 W	6 5 19	1 41	39 23	26 0 1	37 1	31 21	38 14	0 7 25	21 20 30				
24 Th	6 9 15	2 38	55 23	25 14	43 53	2 46	19	3 13	57 21 56 37 19				
25 F	6 13 12	3 36	10 23	24 29	3 10	3 47	15	21 13	54 6 17 13 12				
26 S	6 17 8	4 33	24 23	22 12	56 54	34 10	55 13	50 9 44	2 8 31				
27 Sa	6 21 5	5 30	37 23	20 26	24 535	4 6	41 3	47 2 59	40 3 N 35				
28 M	6 25 2	6 27	50 23	17 9 28	455	17 1 N	6 13	44 15	52 30 15 22				
29 Tu	6 28 58	7 25	32 23	14 22	11 225	14 3 S	47 13	41 28	25 46 6 8				
30 W	6 32 54	8 22	15 23	11 4 36	13 4 N	56 8 S	24 13	38 10 43	8 10 S 34				

FIRST QUARTER—June 28, 5h. 56m. a.m. (6° ± 13')

EPHEMERIS JUNE, 1982												Lunar Aspects	
D	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.
1	11 11 9	1 53	2 53	1 17 27	15 44	2 16 26	1 52 24	25	Δ	Δ	Δ	Δ	Δ
2	10 43 6	3 2	3 7	1 12 3	15 44	2 14 26	1 42 24	24	Δ	Δ	Δ	Δ	Δ
3	10 2 4	12 3	21 1	19 15	41	2 12 26	2 24 23		Δ	Δ	Δ	Δ	Δ
4	9 30 5	22 3	36 1	14 15	40	2 9 26	1 24 22		Δ	Δ	Δ	Δ	Δ
5	8 59 6	31 3	52 1	10 15	38	2 7 25	59 24 21		Δ	Δ	Δ	Δ	Δ
6	8 30 7	41 4	8 1	7 15	37	2 4 25	57 24 20		Δ	Δ	Δ	Δ	Δ
7	8 4 8	51 4	25 1	3 15	36	2 2 25	56 24 19		Δ	Δ	Δ	Δ	Δ
8	7 40 10	1 4	42 0	59 15	35	2 0 25	54 24 18		Δ	Δ	Δ	Δ	Δ
9	7 20 11	11 4	59 0	56 15	34	1 57 25	53 24 17		Δ	Δ	Δ	Δ	Δ
10	7 3 12	21 5	17 0	53 15	33	1 55 25	51 24 17		Δ	Δ	Δ	Δ	Δ
11	6 50 13	31 5	36 0	50 15	32	1 52 25	49 24 16		Δ	Δ	Δ	Δ	Δ
12	6 42 14	42 5	55 0	47 15	32	1 50 25	48 24 15		Δ	Δ	Δ	Δ	Δ
13	6 38 15	52 6	14 0	45 15	31	1 48 25	46 24 14		Δ	Δ	Δ	Δ	Δ
14	6 34 16	2 6	34 0	42 15	31	1 46 25	45 24 14		Δ	Δ	Δ	Δ	Δ
15	6 42 17	13 6	54 0	40 15	30	1 43 25	43 24 13		Δ	Δ	Δ	Δ	Δ
16	6 52 19	23 7	15 0	38 15	30	1 41 25	41 24 13		Δ	Δ	Δ	Δ	Δ
17	7 5 20	33 7	36 0	36 15	30	1 39 25	40 24 12		Δ	Δ	Δ	Δ	Δ
18	7 24 21	44 7	58 0	34 15	30	1 37 25	38 24 11		Δ	Δ	Δ	Δ	Δ
19	7 47 22	55 8	20 0	32 15	30	1 35 25	37 24 11		Δ	Δ	Δ	Δ	Δ
20	8 14 24	5 8	42 0	31 15	30	1 32 25	35 24 10		Δ	Δ	Δ	Δ	Δ
21	8 46 25	16 9	5 0	30 15	30	1 30 25	33 24 10		Δ	Δ	Δ	Δ	Δ
22	9 23 26	27 9	28 0	29 15	31	1 28 25	32 24 10		Δ	Δ	Δ	Δ	Δ
23	10 42 27	38 9	51 0	28 15	31	1 26 25	30 24 9		Δ	Δ	Δ	Δ	Δ
24	10 49 28	48 10	15 0	27 15	32	1 24 25	28 24 9		Δ	Δ	Δ	Δ	Δ
25	11 38 29	59 10	39 0	27 15	32	1 22 25	27 24 9		Δ	Δ	Δ	Δ	Δ
26	12 32 30	10 11	4 0	26 15	33	1 20 25	25 24 8		Δ	Δ	Δ	Δ	Δ
27	13 29 31	21 11	28 0	26 15	34	1 18 25	24 24 8		Δ	Δ	Δ	Δ	Δ
28	14 31 32	11 54	0 26	26 15	35	1 16 25	22 24 8		Δ	Δ	Δ	Δ	Δ
29	15 37 43	12 19	0 26	26 15	36	1 15 25	21 24 8		Δ	Δ	Δ	Δ	Δ
30	16 46 54	5 54	12 45	0 17 27	37	1 13 25	19 24 7		Δ	Δ	Δ	Δ	Δ

LAST QUARTER—June 14, 6h. 6m. p.m. (23° ± 21')

Table (iii)

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TABLE II
RATE OF 24-HOUR MOTION

Time 0 Hours Min.	0°29'	0°30'	0°31'	0°32'	0°33'	0°34'	0°35'
1	0 01	0 01	0 01	0 01	0 01	0 01	0 01
2	0 02	0 02	0 03	0 03	0 03	0 03	0 03
3	0 04	0 04	0 04	0 04	0 04	0 04	0 04
4	0 05	0 05	0 05	0 05	0 05	0 06	0 06
5	0 06	0 06	0 06	0 07	0 07	0 07	0 07
6	0 07	0 07	0 08	0 08	0 08	0 08	0 09
7	0 08	0 09	0 09	0 09	0 10	0 10	0 10
8	0 10	0 10	0 10	0 11	0 11	0 11	0 12
9	0 11	0 11	0 12	0 12	0 12	0 13	0 13
10	0 12	0 12	0 13	0 13	0 14	0 14	0 14
11	0 13	0 14	0 14	0 15	0 15	0 16	0 16
12	0 14	0 15	0 15	0 16	0 16	0 17	0 17
13	0 16	0 16	0 17	0 17	0 18	0 18	0 19
14	0 17	0 17	0 18	0 19	0 19	0 20	0 20
15	0 18	0 19	0 19	0 20	0 21	0 21	0 22
16	0 19	0 20	0 21	0 21	0 22	0 23	0 23
17	0 21	0 21	0 22	0 23	0 23	0 24	0 25
18	0 22	0 22	0 23	0 24	0 25	0 25	0 26
19	0 23	0 24	0 24	0 25	0 26	0 27	0 28
20	0 24	0 25	0 26	0 27	0 27	0 28	0 29
21	0 25	0 26	0 27	0 28	0 29	0 30	0 31
22	0 27	0 27	0 28	0 29	0 30	0 31	0 32
23	0 28	0 29	0 30	0 31	0 32	0 33	0 34
24	0 29	0 30	0 31	0 32	0 33	0 34	0 35
25	0 30	0 31	0 32	0 33	0 34	0 35	0 36
26	0 31	0 32	0 34	0 35	0 36	0 37	0 38
27	0 33	0 34	0 35	0 36	0 37	0 38	0 39
28	0 34	0 35	0 36	0 37	0 39	0 40	0 41
29	0 35	0 36	0 37	0 39	0 40	0 41	0 42
30	0 36	0 37	0 39	0 40	0 41	0 42	0 44
31	0 37	0 39	0 40	0 41	0 43	0 44	0 45
32	0 39	0 40	0 41	0 43	0 44	0 45	0 47
33	0 40	0 41	0 43	0 44	0 45	0 47	0 48
34	0 41	0 42	0 44	0 45	0 47	0 48	0 49
35	0 42	0 44	0 45	0 47	0 48	0 49	0 51
36	0 43	0 45	0 46	0 48	0 49	0 51	0 52
37	0 44	0 46	0 47	0 48	0 50	0 51	0 53
38	0 46	0 47	0 49	0 50	0 52	0 53	0 55
39	0 47	0 48	0 50	0 52	0 54	0 55	0 57
40	0 48	0 50	0 52	0 53	0 55	0 57	0 58
41	0 49	0 51	0 53	0 55	0 56	0 58	1 00
42	0 51	0 52	0 54	0 56	0 58	0 59	1 01
43	0 52	0 54	0 56	0 57	0 59	1 01	1 03
44	0 53	0 55	0 57	0 59	1 00	1 02	1 04
45	0 54	0 56	0 58	1 00	1 02	1 04	1 06

from "Tables of Diurnal Planetary Motion"

TABLE II
RATE OF 24-HOUR MOTION

Time 0 Hours Min.	0°29'	0°30'	0°31'	0°32'	0°33'	0°34'	0°35'
46	0 56	0 57	0 59	1 01	1 03	1 05	1 07
47	0 57	0 59	1 01	1 03	1 05	1 07	1 09
48	0 58	1 00	1 02	1 04	1 06	1 08	1 10
49	0 59	1 01	1 03	1 05	1 07	1 09	1 11
50	1 00	1 02	1 05	1 07	1 09	1 11	1 13
51	1 02	1 04	1 06	1 08	1 10	1 12	1 15
52	1 03	1 05	1 07	1 09	1 11	1 14	1 16
53	1 04	1 06	1 08	1 11	1 13	1 15	1 17
54	1 05	1 07	1 10	1 12	1 14	1 16	1 19
55	1 06	1 09	1 11	1 13	1 16	1 18	1 20
56	1 08	1 10	1 12	1 15	1 17	1 19	1 22
57	1 09	1 11	1 14	1 16	1 18	1 21	1 23
58	1 10	1 12	1 15	1 18	1 20	1 23	1 25
59	1 11	1 14	1 16	1 19	1 21	1 24	1 26
60	1 12	1 15	1 17	1 20	1 22	1 25	1 27

Hours

Hours	1 12	1 15	1 17	1 20	1 22	1 25	1 27
1	1 12	1 15	1 17	1 20	1 22	1 25	1 27
2	2 25	2 30	2 35	2 40	2 45	2 50	2 55
3	3 37	3 45	3 52	4 00	4 07	4 15	4 22
4	4 50	5 00	5 10	5 20	5 30	5 40	5 50
5	6 02	6 15	6 27	6 40	6 52	7 05	7 17
6	7 15	7 30	7 45	8 00	8 15	8 30	8 45
7	8 27	8 45	9 02	9 20	9 37	9 55	10 12
8	9 40	10 00	10 20	10 40	11 00	11 20	11 40
9	10 52	11 15	11 37	12 00	12 22	12 45	13 07
10	12 05	12 30	12 55	13 20	13 45	14 10	14 35
11	13 17	13 45	14 12	14 40	15 07	15 35	16 02
12	14 30	15 00	15 30	16 00	16 30	17 00	17 30
13	15 42	16 15	16 47	17 20	17 52	18 25	18 57
14	16 55	17 30	18 05	18 40	19 15	19 50	20 25
15	18 07	18 45	19 22	20 00	20 37	21 15	21 52
16	19 20	20 00	20 40	21 20	22 00	22 40	23 20
17	20 32	21 15	21 57	22 40	23 22	24 05	24 47
18	21 45	22 30	23 15	24 00	24 45	25 30	26 15
19	22 57	23 45	24 32	25 20	26 07	26 55	27 42
20	24 10	25 00	25 50	26 40	27 30	28 20	29 10
21	25 22	26 15	27 07	28 00	28 52	29 45	30 37
22	26 35	27 30	28 25	29 20	30 15	31 10	32 05
23	27 47	28 45	29 42	30 40	31 37	32 35	33 32
24	29 00	30 00	31 00	32 00	33 00	34 00	35 00

Table (iv)

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TABLE II
RATE OF 24-HOUR MOTION

Time
0 Hours
Min.

1'11' 1'12' 1'13' 1'14' 1'15' 1'16' 1'17'

from "Tables of Diurnal Planetary Motion".

1	0 03	0 03	0 03	0 03	0 03	0 03	0 03
2	0 06	0 06	0 06	0 06	0 06	0 06	0 06
3	0 09	0 09	0 09	0 09	0 09	0 09	0 10
4	0 12	0 12	0 12	0 12	0 12	0 13	0 13
5	0 15	0 15	0 15	0 15	0 16	0 16	0 16
6	0 18	0 18	0 18	0 18	0 19	0 19	0 19
7	0 21	0 21	0 21	0 22	0 22	0 22	0 23
8	0 24	0 24	0 24	0 25	0 25	0 25	0 26
9	0 27	0 27	0 27	0 28	0 28	0 28	0 29
10	0 30	0 30	0 30	0 31	0 31	0 32	0 32
11	0 33	0 33	0 33	0 34	0 34	0 35	0 35
12	0 35	0 36	0 36	0 37	0 37	0 38	0 38
13	0 38	0 39	0 40	0 40	0 41	0 41	0 42
14	0 41	0 42	0 43	0 43	0 44	0 44	0 45
15	0 44	0 45	0 46	0 46	0 47	0 47	0 48
16	0 47	0 48	0 49	0 49	0 50	0 51	0 51
17	0 50	0 51	0 52	0 52	0 53	0 54	0 55
18	0 53	0 54	0 55	0 55	0 56	0 57	0 58
19	0 56	0 57	0 58	0 59	0 59	1 00	1 01
20	0 59	1 00	1 01	1 02	1 02	1 03	1 04
21	1 02	1 03	1 04	1 05	1 06	1 06	1 07
22	1 05	1 06	1 07	1 08	1 09	1 10	1 11
23	1 08	1 09	1 10	1 11	1 12	1 13	1 14
24	1 11	1 12	1 13	1 14	1 15	1 16	1 17
25	1 14	1 15	1 16	1 17	1 18	1 19	1 20
26	1 17	1 18	1 19	1 20	1 21	1 22	1 23
27	1 20	1 21	1 22	1 23	1 24	1 25	1 27
28	1 23	1 24	1 25	1 26	1 28	1 29	1 30
29	1 26	1 27	1 28	1 29	1 31	1 32	1 33
30	1 29	1 30	1 31	1 32	1 34	1 35	1 36
31	1 32	1 33	1 34	1 36	1 37	1 38	1 39
32	1 35	1 36	1 37	1 39	1 40	1 41	1 43
33	1 38	1 39	1 40	1 42	1 43	1 44	1 46
34	1 41	1 42	1 43	1 45	1 46	1 48	1 49
35	1 44	1 45	1 46	1 48	1 49	1 51	1 52
36	1 46	1 48	1 49	1 51	1 52	1 54	1 55
37	1 49	1 50	1 52	1 53	1 55	1 56	1 58
38	1 52	1 54	1 56	1 57	1 59	2 00	2 02
39	1 55	1 57	1 59	2 00	2 02	2 03	2 05
40	1 58	2 00	2 02	2 03	2 05	2 07	2 08
41	2 01	2 03	2 05	2 06	2 08	2 10	2 12
42	2 04	2 06	2 08	2 09	2 11	2 13	2 15
43	2 07	2 09	2 11	2 13	2 14	2 16	2 18
44	2 10	2 12	2 14	2 16	2 17	2 19	2 21
45	2 13	2 15	2 17	2 19	2 21	2 22	2 24

TABLE II
RATE OF 24-HOUR MOTION

Time
0 Hours
Min.

1'11' 1'12' 1'13' 1'14' 1'15' 1'16' 1'17'

46	2 16	2 18	2 20	2 22	2 24	2 26	2 28
47	2 19	2 21	2 23	2 25	2 27	2 29	2 31
48	2 22	2 24	2 26	2 28	2 30	2 32	2 34
49	2 25	2 27	2 29	2 31	2 33	2 35	2 37
50	2 28	2 30	2 32	2 34	2 36	2 38	2 40
51	2 31	2 33	2 35	2 37	2 39	2 41	2 44
52	2 34	2 36	2 38	2 40	2 42	2 45	2 47
53	2 37	2 39	2 41	2 43	2 46	2 48	2 50
54	2 40	2 42	2 44	2 46	2 49	2 51	2 53
55	2 43	2 45	2 48	2 50	2 52	2 54	2 57
56	2 46	2 48	2 50	2 53	2 55	2 57	3 00
57	2 48	2 51	2 53	2 55	2 58	3 00	3 03
58	2 52	2 54	2 56	2 59	3 01	3 04	3 06
59	2 54	2 57	2 59	3 02	3 04	3 07	3 09
60	2 57	3 00	3 02	3 05	3 07	3 10	3 12

Hours

2 57 3 00 3 02 3 05 3 07 3 10 3 12

1	2 57	3 00	3 02	3 05	3 07	3 10	3 12
2	5 55	6 00	6 05	6 10	6 15	6 20	6 25
3	8 52	9 00	9 07	9 15	9 22	9 30	9 37
4	11 50	12 00	12 10	12 20	12 30	12 40	12 50
5	14 47	15 00	15 12	15 25	15 37	15 50	16 02
6	17 45	18 00	18 15	18 30	18 45	19 00	19 15
7	20 42	21 00	21 17	21 35	21 52	22 10	22 27
8	23 40	24 00	24 20	24 40	25 00	25 20	25 40
9	26 37	27 00	27 22	27 45	28 07	28 30	28 52
10	29 35	30 00	30 25	30 50	31 15	31 40	32 05
11	32 32	33 00	33 27	33 55	34 22	34 50	35 17
12	35 30	36 00	36 30	37 00	37 30	38 00	38 30
13	38 27	39 00	39 32	40 05	40 37	41 10	41 42
14	41 25	42 00	42 35	43 10	43 45	44 20	44 55
15	44 22	45 00	45 37	46 15	46 52	47 30	48 07
16	47 20	48 00	48 40	49 20	50 00	50 40	51 20
17	50 17	51 00	51 42	52 25	53 07	53 50	54 32
18	53 15	54 00	54 45	55 30	56 15	57 00	57 45
19	56 12	57 00	57 47	58 35	59 22	1 00 10	1 00 57
20	59 10	1 00 00	1 00 50	1 01 40	1 02 30	1 03 20	1 04 10
21	1 02 07	1 03 00	1 03 52	1 04 45	1 05 36	1 06 30	1 07 22
22	1 05 05	1 06 00	1 06 55	1 07 50	1 08 45	1 09 40	1 10 35
23	1 08 02	1 09 00	1 09 57	1 10 55	1 11 52	1 12 50	1 13 47
24	1 11 00	1 12 00	1 13 00	1 14 00	1 15 00	1 16 00	1 17 00

TABLE II
RATE OF 24-HOUR MOTION

Time 0 Hours Min.	0°22'	0°23'	0°24'	0°25'	0°26'	0°27'	0°28'
1	0 01	0 01	0 01	0 01	0 01	0 01	0 01
2	0 02	0 02	0 02	0 02	0 02	0 02	0 02
3	0 03	0 03	0 03	0 03	0 03	0 03	0 03
4	0 04	0 04	0 04	0 04	0 04	0 04	0 05
5	0 05	0 05	0 05	0 05	0 05	0 06	0 06
6	0 05	0 06	0 06	0 06	0 06	0 07	0 07
7	0 07	0 07	0 07	0 07	0 08	0 08	0 08
8	0 07	0 08	0 08	0 08	0 09	0 09	0 09
9	0 08	0 09	0 09	0 09	0 10	0 10	0 10
10	0 09	0 10	0 10	0 10	0 11	0 11	0 12
11	0 10	0 11	0 11	0 11	0 12	0 12	0 13
12	0 11	0 11	0 12	0 12	0 13	0 13	0 14
13	0 12	0 12	0 13	0 14	0 14	0 15	0 15
14	0 13	0 13	0 14	0 15	0 15	0 16	0 16
15	0 14	0 14	0 15	0 16	0 16	0 17	0 17
16	0 15	0 15	0 16	0 17	0 17	0 18	0 19
17	0 16	0 16	0 17	0 18	0 18	0 19	0 20
18	0 16	0 17	0 18	0 19	0 19	0 20	0 21
19	0 17	0 18	0 19	0 20	0 21	0 21	0 22
20	0 18	0 19	0 20	0 21	0 22	0 22	0 23
21	0 19	0 20	0 21	0 22	0 23	0 24	0 24
22	0 20	0 21	0 22	0 23	0 24	0 25	0 26
23	0 21	0 22	0 23	0 24	0 25	0 26	0 27
24	0 22	0 23	0 24	0 25	0 26	0 27	0 28
25	0 23	0 24	0 25	0 26	0 27	0 28	0 29
26	0 24	0 25	0 26	0 27	0 28	0 29	0 30
27	0 25	0 26	0 27	0 28	0 29	0 30	0 31
28	0 26	0 27	0 28	0 29	0 30	0 32	0 33
29	0 27	0 28	0 29	0 30	0 31	0 33	0 34
30	0 27	0 29	0 30	0 31	0 32	0 34	0 35
31	0 28	0 30	0 31	0 32	0 34	0 35	0 36
32	0 29	0 31	0 32	0 33	0 35	0 36	0 37
33	0 30	0 32	0 33	0 34	0 36	0 37	0 38
34	0 31	0 33	0 34	0 35	0 37	0 38	0 40
35	0 32	0 34	0 35	0 36	0 38	0 39	0 41
36	0 33	0 34	0 36	0 37	0 39	0 40	0 42
37	0 33	0 35	0 37	0 39	0 40	0 42	0 43
38	0 34	0 36	0 38	0 40	0 41	0 43	0 44
39	0 35	0 37	0 39	0 41	0 42	0 44	0 46
40	0 37	0 38	0 40	0 42	0 43	0 45	0 47
41	0 38	0 39	0 41	0 43	0 44	0 46	0 48
42	0 38	0 40	0 42	0 44	0 45	0 47	0 49
43	0 39	0 41	0 43	0 45	0 47	0 48	0 50
44	0 40	0 42	0 44	0 46	0 48	0 49	0 51
45	0 41	0 43	0 45	0 47	0 49	0 51	0 52

from "Tables of Diurnal Planetary Motion".

TABLE II
RATE OF 24-HOUR MOTION

Time 0 Hours Min.	0°22'	0°23'	0°24'	0°25'	0°26'	0°27'	0°28'
46	0 42	0 44	0 46	0 48	0 50	0 52	0 54
47	0 43	0 45	0 47	0 49	0 51	0 53	0 55
48	0 44	0 46	0 48	0 50	0 52	0 54	0 56
49	0 45	0 47	0 49	0 51	0 53	0 55	0 57
50	0 46	0 48	0 50	0 52	0 54	0 56	0 58
51	0 47	0 49	0 51	0 53	0 55	0 57	1 00
52	0 48	0 50	0 52	0 54	0 56	0 58	1 01
53	0 49	0 51	0 53	0 55	0 57	1 00	1 02
54	0 49	0 52	0 54	0 56	0 58	1 01	1 03
55	0 50	0 53	0 55	0 57	1 00	1 02	1 04
56	0 51	0 54	0 56	0 58	1 01	1 03	1 05
57	0 52	0 55	0 57	0 59	1 02	1 04	1 06
58	0 53	0 56	0 58	1 00	1 03	1 05	1 08
59	0 54	0 57	0 59	1 01	1 04	1 06	1 09
60	0 55	0 57	1 00	1 02	1 05	1 07	1 10

Hours	0 55	0 57	1 00	1 02	1 05	1 07	1 10
1	1 50	1 55	2 00	2 05	2 10	2 15	2 20
2	2 45	2 52	3 00	3 07	3 15	3 22	3 30
3	3 40	3 50	4 00	4 10	4 20	4 30	4 40
4	4 35	4 47	5 00	5 12	5 25	5 37	5 50
5	5 30	5 45	6 00	6 15	6 30	6 45	7 00
6	6 25	6 42	7 00	7 17	7 35	7 52	8 10
7	7 20	7 40	8 00	8 20	8 40	9 00	9 20
8	8 15	8 37	9 00	9 22	9 45	10 07	10 30
9	9 10	9 35	10 00	10 25	10 50	11 15	11 40
10	10 05	10 32	11 00	11 27	11 55	12 22	12 50
11	11 00	11 30	12 00	12 30	13 00	13 30	14 00
12	11 55	12 27	13 00	13 32	14 05	14 37	15 10
13	12 50	13 25	14 00	14 35	15 10	15 45	16 20
14	13 45	14 22	15 00	15 37	16 15	16 52	17 30
15	14 40	15 20	16 00	16 40	17 20	18 00	18 40
16	15 35	16 17	17 00	17 42	18 25	19 07	19 50
17	16 30	17 15	18 00	18 45	19 30	20 15	21 00
18	17 25	18 12	19 00	19 47	20 35	21 22	22 10
19	18 20	19 10	20 00	20 50	21 40	22 30	23 20
20	19 15	20 07	21 00	21 52	22 45	23 37	24 30
21	20 10	21 05	22 00	22 55	23 50	24 45	25 40
22	21 05	22 02	23 00	23 57	24 55	25 52	26 50
23	22 00	23 00	24 00	25 00	26 00	27 00	28 00

for: ☉

Table (vi)

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TABLE II
RATE OF 24-HOUR MOTION

from "Tables of Diurnal Planetary Motion".

Time 0 Hours Min.	0°01'	0°02'	0°03'	0°04'	0°05'	0°06'	0°07'
1							0 01
2							0 01
3							0 01
4	—			0 01	0 01	0 01	0 01
5			0 01	0 01	0 01	0 01	0 01
6		0 01	0 01	0 01	0 01	0 02	0 02
7		0 01	0 01	0 01	0 02	0 02	0 02
8		0 01	0 01	0 01	0 02	0 02	0 03
9		0 01	0 01	0 02	0 02	0 02	0 03
10		0 01	0 01	0 02	0 02	0 03	0 03
11		0 01	0 01	0 02	0 02	0 03	0 03
12		0 01	0 02	0 02	0 03	0 03	0 04
13	0 01	0 01	0 02	0 02	0 03	0 03	0 04
14	0 01	0 01	0 02	0 02	0 03	0 04	0 04
15	0 01	0 01	0 02	0 03	0 03	0 04	0 05
16	0 01	0 01	0 02	0 03	0 04	0 04	0 05
17	0 01	0 01	0 02	0 03	0 04	0 04	0 05
18	0 01	0 01	0 02	0 03	0 04	0 05	0 05
19	0 01	0 02	0 02	0 03	0 04	0 05	0 06
20	0 01	0 02	0 02	0 03	0 04	0 05	0 06
21	0 01	0 02	0 03	0 03	0 04	0 05	0 06
22	0 01	0 02	0 03	0 04	0 05	0 05	0 06
23	0 01	0 02	0 03	0 04	0 05	0 06	0 07
24	0 01	0 02	0 03	0 04	0 05	0 06	0 07
25	0 01	0 02	0 03	0 04	0 05	0 06	0 08
26	0 01	0 02	0 03	0 04	0 05	0 06	0 08
27	0 01	0 02	0 03	0 04	0 06	0 07	0 08
28	0 01	0 02	0 03	0 05	0 06	0 07	0 08
29	0 01	0 02	0 04	0 05	0 06	0 07	0 09
30	0 01	0 02	0 04	0 05	0 06	0 07	0 09
31	0 01	0 03	0 04	0 05	0 06	0 08	0 09
32	0 01	0 03	0 04	0 05	0 07	0 08	0 10
33	0 01	0 03	0 04	0 05	0 07	0 08	0 10
34	0 01	0 03	0 04	0 06	0 07	0 09	0 10
35	0 01	0 03	0 04	0 06	0 07	0 09	0 10
36	0 01	0 03	0 04	0 06	0 07	0 09	0 11
37	0 02	0 03	0 05	0 06	0 08	0 09	0 11
38	0 02	0 03	0 05	0 06	0 08	0 09	0 11
39	0 02	0 03	0 05	0 06	0 08	0 10	0 12
40	0 02	0 03	0 05	0 07	0 08	0 10	0 12
41	0 02	0 03	0 05	0 07	0 09	0 10	0 12
42	0 02	0 03	0 05	0 07	0 09	0 11	0 13
43	0 02	0 04	0 05	0 07	0 09	0 11	0 13
44	0 02	0 04	0 05	0 07	0 09	0 11	0 13
45	0 02	0 04	0 06	0 07	0 09	0 11	0 13

TABLE II
RATE OF 24-HOUR MOTION

Time 0 Hours Min.	0°01'	0°02'	0°03'	0°04'	0°05'	0°06'	0°07'
46	0 02	0 04	0 06	0 08	0 10	0 11	0 13
47	0 02	0 04	0 06	0 08	0 10	0 12	0 14
48	0 02	0 04	0 06	0 08	0 10	0 12	0 14
49	0 02	0 04	0 06	0 08	0 10	0 12	0 14
50	0 02	0 04	0 06	0 08	0 10	0 12	0 15
51	0 02	0 04	0 06	0 08	0 11	0 13	0 15
52	0 02	0 04	0 06	0 09	0 11	0 13	0 15
53	0 02	0 04	0 07	0 09	0 11	0 13	0 15
54	0 02	0 04	0 07	0 09	0 11	0 13	0 16
55	0 02	0 05	0 07	0 09	0 11	0 14	0 16
56	0 02	0 05	0 07	0 09	0 12	0 14	0 16
57	0 02	0 05	0 07	0 09	0 12	0 14	0 17
58	0 02	0 05	0 07	0 10	0 12	0 14	0 17
59	0 02	0 05	0 07	0 10	0 12	0 15	0 17
60	0 02	0 05	0 07	0 10	0 12	0 15	0 17

Hours	0 02	0 05	0 07	0 10	0 12	0 15	0 17
1	0 02	0 05	0 07	0 10	0 12	0 15	0 17
2	0 05	0 10	0 15	0 20	0 25	0 30	0 35
3	0 07	0 15	0 22	0 30	0 37	0 45	0 52
4	0 10	0 20	0 30	0 40	0 50	1 00	1 10
5	0 12	0 25	0 37	0 50	1 02	1 15	1 27
6	0 15	0 30	0 45	1 00	1 15	1 30	1 45
7	0 17	0 35	0 52	1 10	1 27	1 45	2 02
8	0 20	0 40	1 00	1 20	1 40	2 00	2 20
9	0 22	0 45	1 07	1 30	1 52	2 15	2 37
10	0 25	0 50	1 15	1 40	2 05	2 30	2 55
11	0 27	0 55	1 22	1 50	2 17	2 45	3 12
12	0 30	1 00	1 30	2 00	2 30	3 00	3 30
13	0 32	1 05	1 37	2 10	2 42	3 15	3 47
14	0 35	1 10	1 45	2 20	2 55	3 30	4 05
15	0 37	1 15	1 52	2 30	3 07	3 45	4 22
16	0 40	1 20	2 00	2 40	3 20	4 00	4 40
17	0 42	1 25	2 07	2 50	3 32	4 15	4 57
18	0 45	1 30	2 15	3 00	3 45	4 30	5 15
19	0 47	1 35	2 22	3 10	3 57	4 45	5 32
20	0 50	1 40	2 30	3 20	4 10	5 00	5 50
21	0 52	1 45	2 37	3 30	4 22	5 15	6 07
22	0 55	1 50	2 45	3 40	4 35	5 30	6 25
23	0 57	1 55	2 52	3 50	4 47	5 45	6 42
24	1 00	2 00	3 00	4 00	5 00	6 00	7 00

For Saturn:- Note Saturn goes Direct (D) before the dates we are working from, therefore calculations are as for the non ♁ planets. You will see though that there is no difference of motion between the 20th and 21st. Saturn is Stationary although direct. No calculation takes place in this case and the figures are calculated straight onto the horoscope, Saturn being considered Stationary Direct (SD).

$$\gamma^{SD} 15^{\circ} \approx 30'$$

For Uranus:- Uranus is Retrograde.

$$\begin{array}{r} 1^{\circ} \nearrow 32' \\ 1^{\circ} \nearrow 30' \\ \hline 2' \end{array}$$

2' from tables = 5"

$$\begin{array}{r} 1^{\circ} 31' 60'' \\ - \quad \quad 5'' \\ \hline \text{H} \text{ } 1^{\circ} 31' \nearrow 55' \end{array}$$

For Neptune:-

$$\begin{array}{r} 25^{\circ} \nearrow 35' \\ - 25^{\circ} \nearrow 33' \\ \hline 2' \end{array}$$

2' from tables = 5"

$$\begin{array}{r} 25^{\circ} \nearrow 34' 60'' \\ - \quad \quad 5'' \\ \hline \text{♆} \text{ } 25^{\circ} \nearrow 34' 55'' \end{array}$$

For Pluto:-

Pluto is Retrograde Stationary.

$$\text{Result is } \text{P}^{RS} \quad 24^{\circ} \approx 10'$$

STEP F

Transferring the planets to the horoscope.

Our work with sidereal time gave us the signs on the house cusps and what degree the cusp commences.

Take the sun $28^{\circ} \text{II} 52' 33''$

Gemini starts the 3rd house cusp at 6° so it would be reasonable to assume 6° of Gemini would be in the 2nd house and the remaining 24° in the 3rd house. (Each sign having 30° each). Count from the 6th degree to the 28th degree which is only 1 degree off 30° Gemini and 2 degrees off 0° Cancer. (Note the 4th house cusp is 10° Cancer). Place the Sun on the 28th degree of Gemini as shown in the following diagram.

Keep clear in your mind the house cusps are sign posts and we place the planets onto the horoscope 360° circle in relation to these signposts. Also note a sign consists only of 30° (0° - 30°) no more, no less. Keep clear the distinction between signs and house. The houses are on paper, the signs are projected into the heavens. In analysis the two come together dynamically. We use a degree of a sign to mark the beginning of a house. The house begins at its cusp, (signpost).

For the other planets repeat the same method.

CALCULATION OF THE "PARTS"

6 parts will be dealt with in this lecture.

The Part of Fortuna ☉
 The Part of Illumination ♃
 The Part of Destiny ☿
 The Part of Occultism ✨
 The Part of Fate 8
 The Part of Spirit ♁

Note in the following the signs start from 0° so Aries will be 0°-1, that is, 'the first house BUT numbered 0. Taurus is 1-2 so is numbered 1 although Taurus is the second house. Gemini 2, Cancer 3 and so on.

☉ The ascendent + Moon minus the sun
 e.g.

	Sign	°	'
	♈	0	42
+	♊	2	21
		2	63
-	♊	2	52

we see 24 cannot take away 28
 so we borrow 1 extra sign (30°)
 to 24 and give 12 signs to the
 1 remaining sign

∴	13	54	63	
-	2	28	52	
	11	26	11	= ☉ 26° ♋ 11' which is entered on to the horoscope

♃ The part of illumination is the same degree but opposite sign to the part of fortuna.

i.e. ♊ 26° ♏ 10'

☿ MC + Sun - Moon (MC is mid-heaven which is the 10th house cusp using the Placidus System.)

e.g.

	♊	9	10	
+	♊	2	52	
		11	52	
-	♊	2	21	
		9	31	= ☉ 23° ♊ 31'

♁ Ascendent + Neptune - Uranus

	♈	0	41	
+	♁	8	34	
		8	75	
-	♁	8	58	
		0	17	= ♁ 4° ♈ 17'



Ascendent + Saturn - Sun

	♈ 0	9	41	
	+	<u>♎ 6</u>	15	30
		6	24	71
	-	<u>♏ 2</u>	28	52
borrowing		5	54	71
	-	<u>2</u>	28	52
		3	26	19

= ♏ 26° ♎ 19'



Ascendent + Sun - Moon

	♈ 0	9	41	
	+	<u>♏ 2</u>	28	52
		2	37	93
	-	<u>♏ 2</u>	15	21
		0	22	72
Carry over	c/o	0	23	12

= ♏ 23° ♈ 12'

For night time births reverse calculations.

THE MOON NODES:

These are found in the Ephemeris in the month and day of GMT. Calculate these as one would the Retrograde planets. First calculate the North Node (♏). The result of the North Node is exactly the same for the South Node except the South Node is placed in the opposite sign.

INTERCEPTED HOUSES

There may not necessarily be a different sign per cusp.

e.g. from your Tables of Houses a result may be

10 11 12 Ascen 2 3

27° 2° 11° 14°48' 6° 29°

The horoscope would look thus:

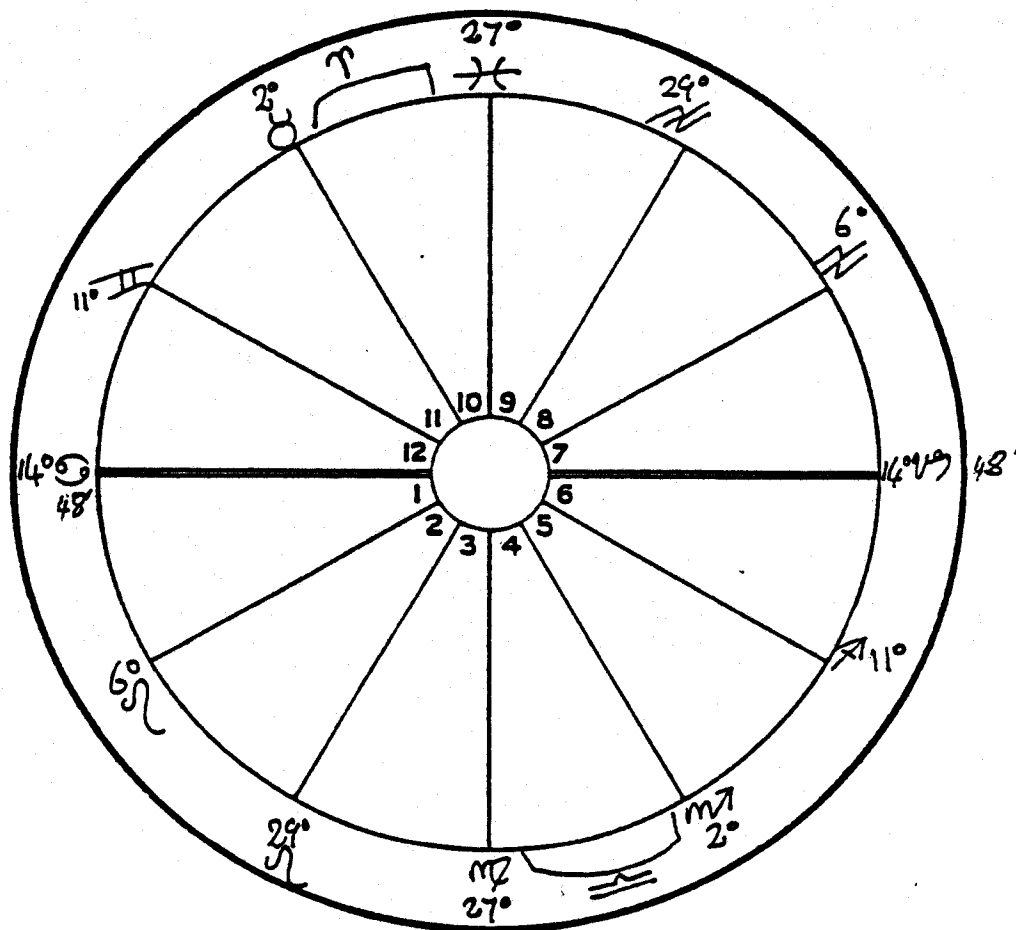


Diagram III

4th and 10th are intercepted houses.

OTHER POINTS

Filling in the data to the left of your chart. *See diagram IV*

The ruling planet is the strongest planet in the horoscope. Some say the planet ruling the sun sign, or the ascendant is the ruling planet, but preference is to the planet in the strongest and most influential position. This is obtained through the analysis of the planetary positions.

Ruling Planet: Strongest planet in chart.

Rulers House: The house the ruling planet is situated.

Rising Planet: Planet nearest ascendant. It is considered any planet more than 60° away from the ascendant cannot be considered a rising planet.

Positive: The amount of planets, parts, nodes, ASC and MC in positive (masculine) signs.

Negative: The amount of planets, parts, nodes, ASC and MC in negative (feminine) signs.

TRIPLICITIES:

Fire: Amount of planets, parts, nodes, ASC and MC in fire signs.

Earth: Same as Fire but in Earth signs.

Air: Same as Fire but in Air signs.

Water: Same as Fire but in Water signs.

QUADRUPLICITIES:

Cardinal: Amount of planets, parts, nodes, ASC & MC in Cardinal signs.

Fixed: Same as Cardinal but in Fixed signs.

Mutable: Same as Cardinal but in Mutable signs.

Angular: Amount of planets, parts, nodes, ASC & MC in Angular Houses.

Succeedent: Same as Angular but in Succeedent Houses.

Cadent: Same as Angular but in Cadent Houses.

MUTUAL RECEPTION:

The relationship between 2 planets located in the sign which one or the other rules.

ASPECTS (distances by degrees between Planets)

Major Aspects:

○	Conjunction	0°
∟	Semi Square	45°
*	Sextile	60°
□	Square	90°
△	Trine	120°
∞	Opposition	180°
+	Grand Cross	2x90°, 2x180°
T	T Square (Cross)	2x180°, 1x90° to both 180°
GT	Grand Trine	3x120° linking up.
Y	Y Configuration	2x60° inconjunct a third.
**	Double Sextile	2x120°, 1x60°
⋈	Double Semi Sextile	2x60°, 1x30° linking
⊞	Double Semi Square	2x90°, 1x45° linking

Explanation.

A grand cross is four planets square each other, e.g. 2 oppositions each square the other opposition.

The T square is 2 planets in opposition and another square both of them.

The GT is 2 planets trine each other, and those two both trining a third.

Y is 2 planets sextile each other and both inconjunct another.

** is 2 planets trine with a third sextile both.

Double Semi Sextile is 2 planets sextile each other and a third planet semi sextile both.

Double Semi Square is 2 planets square and a third semi square both.

Minor Aspects:

	Vigintile	18°
⋈	Semi Sextile	30°
⋈	Semi Quintile	36°
Q	Quintile	72°
	Tridecile	108°
⊞	Sesquiquadrate	135°
#	Bi-Quintile	144°
▽	Quincunx	150°
P	Parallel	-

The degrees are distances between planets. The aspect graph is filled in with the symbols in the appropriate box where an aspect is formed between 2 planets.

Noon positions on _____ Prog.
 Correspond to _____ Noon Date

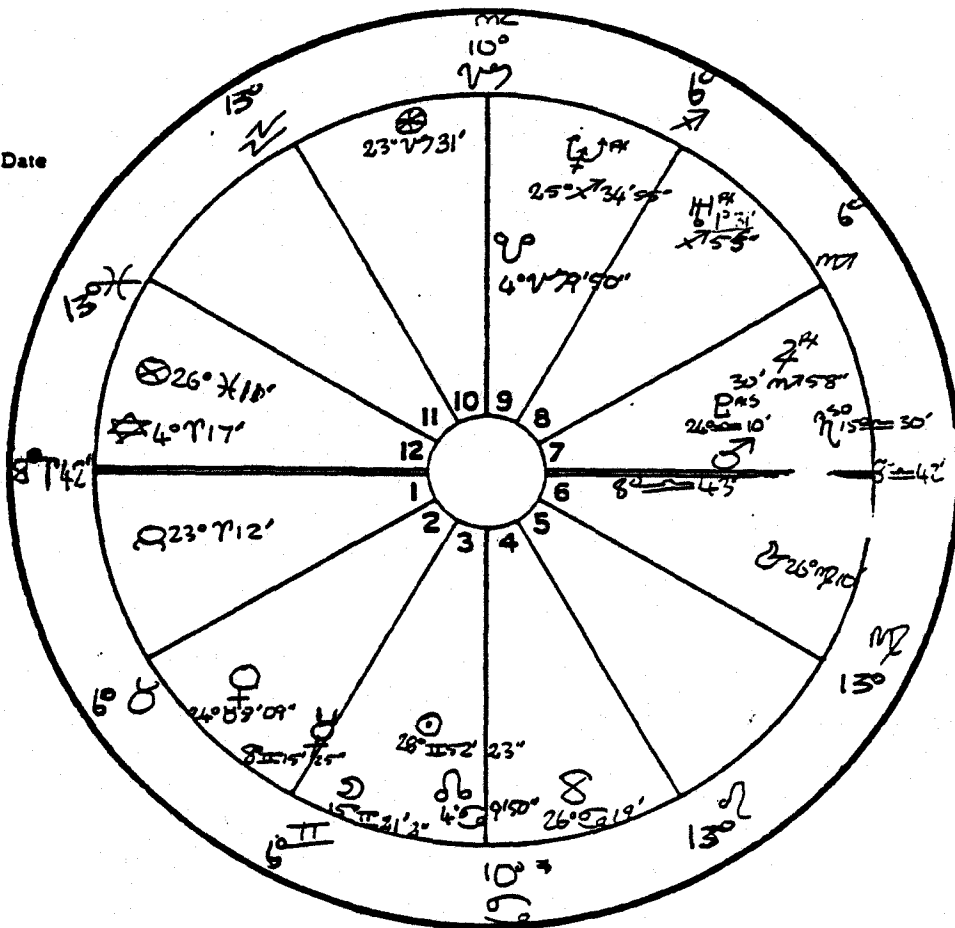
PO _____
 PD _____
 Pq _____
 PQ _____
 Pq _____

Ruling Planet _____ Ruler's House _____
 Rising Planet _____ Positive 14
 Negative 8

Triplicities:-
 Fire 6 Own sign ♀
 Earth 5 Exalted ♀
 Air 8 Detriment ♂
 Water 3 Fall —

Quadruplicities:-
 Cardinal 10 Angular 10
 Fixed 3 Succedent 3
 Mutable 9 Cadent 9

Mutual Reception _____



PLANET	DEC.	ASPECTS												NOTES	BY DIRECT METHOD		
		☉	☽	☿	♀	♂	♂	♂	♂	♂	♂	♂	♂		D.	M.	Y.
Sun		☉	♂				△			♂			☉♂☽☿♀♂♂				

NAME Anonymous No. 1 Result 06:44:39
 No. 2 - The "HOUSES" Chart. DIRECT METHOD

DIAGRAM IV
 Example of placement on the
 horoscope